

2629 Griffin Partners
2629



9586116



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/29/2008

Dear Carrie Reese

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2629

Expiration Date 2/28/2010

Generator: Griffin Partners

Address: 1800 Space Park Drive
Nassau Bay, TX 77602

Waste Information

Name of Waste: Wastewater and Oil

TCEQ Waste Code #:

Container Type:

Detailed Description of Process Generating Waste:

Wastewater from chiller and oil from elevator shaft collected from site closure

Color: grey

Odor: hydrocarbon

pH: 4-11

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

standard ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO108002212



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676

<http://www.cesenvironmental.com>

TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

1. Not recyclable
2. Is it Municipal?
3. If not, need a waste code.

SECTION 1: Generator Information

Company: Griffin Partners
Address: 5151 San Felipe, Suite 1300 - 1800 Space park Drive
City, State, Zip: Houston, Texas 77056 - Nassau Bay, TX 77602
Contact: Gerardo Alejandro Title: Owner's Representative
Phone No: (713) 466-6800 Fax No: (713) 466-4234
24/hr Phone: (713) 702-2004 Cell
U.S. EPA I.D. No: N/A
State I.D. CESG SIC Code: N/A

Physical Address:

SECTION 2: Billing Information - ☐ Same as Above

Company: Vertex Recovery
Address: 2323 Clearlake City
City, State, Zip: Houston, TX 77062
Contact: Carrie Reese Title: Business Development Manager
Phone No: 713-569-7718 Fax No: 281-596-4409

SECTION 3: General Description of the Waste

Name of Waste: Waste water from a Chilling and Heating Underground Mechanical Piping and Oil from Elevator Shaft
Detailed Description of Process Generating Waste: Waste water from old underground Chilled and Heating piping, used to cool and heat the buildings in the olden days, closed chilling unit and oil from elevator shaft

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Phenols? ☒ No

Color: grey

Odor: hydrocarbon

Para Sub Phenols ☒

Specific Gravity (water=1): na

Density: na lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: 10000 Several trips to Site

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly

Number of Units (containers): One Other: AAR will determine when we need to dispose of this water, AAR will give you ample time to arrange the disposal, we anticipate three or four trips to the project site, located at 1800 Space Park Dr., Nassau Bay, Texas

Texas State Waste Code No: Recessed

Proper U.S. DOT Shipping Name:

Class: N/A

UN/NA:

Non HAZARDOUS / Non DOT Regulated Material
N/A PG: N/A RQ: N/A

Flash Point <u>7140</u>	pH <u>7-11</u>	Reactive Sulfides <u>N/A</u> mg/l	Reactive Cyanides <u>N/A</u> mg/l	Solids <u>2</u> %
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Oil & Grease <u>N/A</u> mg/l	TOC <u>N/A</u> mg/l	Zinc <u>N/A</u> mg/l	Copper <u>N/A</u> mg/l	Nickel <u>N/A</u> mg/l
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SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Water	91-97	97 %
Solid and sediment	0-1	1
0.1	3-9	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

none

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: na
TCLP Volatiles: na
TCLP Semi-Volatiles: na
Reactivity: na
Corrosivity: na
Ignitability: na

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Carrie Reese

Date: 2/28/08

Printed Name/Title: Carrie Reese, Auth. Rep for Generator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [Signature]

Additional Information: _____

Date: 2-29-08

Approved

Rejected

Approval Number: _____

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☒ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☒ Coolants - *Chiller Water*
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☒ Oils Subcategory
- ☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

\$ 0.10/gal + trans + fsc

2. Contamination Limits (maximum limit before surcharges apply):

Standard

3. Surcharge Pricing:

< 1000 TDC, \$0.03/gal / 5000 TDC above

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

~~Separate oil phase~~
Standard Only Water

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☒ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

Chlor d test for recovered oil

8. **Management for Product Recovered/Recycled (if applicable):**

IDM
2631

2631

7E

8-4-09

T-35

LAB



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/29/2008

Dear Zac or Dave

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2631

Expiration Date 3/3/2010

Generator: IDM

Address: 11616 Galayda
Houston, TX 77086

Waste Information

Name of Waste: Diesel and water (rain)

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Rain filling up containment for diesel tank (unused diesel)

Color: dark

Odor: slight

pH: neutral

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO108002221



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: IDM
Address: 11616 Galveston
City, State, Zip: Houston, TX 77056
Contact: William Title: Safety
Phone No: 281-447-9000 Fax No: _____
24/hr Phone: _____
U.S. EPA I.D. No: NA
State I.D. NA SIC Code: NA

SECTION 2: Billing Information - ☐ Same as Above

Company: CKG Service LLC
Address: 10707 Korman Express rd
City, State, Zip: Montgomery TX 77126
Contact: Zoe McRae Title: President
Phone No: 281-541-4829 Fax No: 976-256-1226

SECTION 3: General Description of the Waste

Name of Waste: Drain & Water (Rain)
Detailed Description of Process Generating Waste: Rain filling up containment for Diesel Tank
Unusual Diesel
Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination
Color: Dark Odor: slight Does this material contain any phenolic compounds? NO
Specific Gravity (water=1): 1 Density: 8 lbs/gal Does this material contain any paraisubstituted phenolic compounds? NO
Layers: ☒ Single-phase ☐ Multi-phase
Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain) _____
Container Size: _____
Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 2 400 gal Other: _____
Texas State Waste Code No: RECYCLE
Proper U.S. DOT Shipping Name: Recyclable Material
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point <u>>200</u>	pH <u>neutral</u>	Reactive Sulfides <u>0</u> mg/l	Reactive Cyanides <u>0</u> mg/l	Solids <u>22</u> %
Oil & Grease <u>7500</u> mg/l	TOC <u>NA</u> mg/l	Zinc <u>0</u> mg/l	Copper <u>0</u> mg/l	Nickel <u>0</u> mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Unit
The waste consists of the following materials		Ranges are acceptable	or %
Hydrocarbon Resin		90-95	%
		5-10	%
Sediment		0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

N/A Std PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

N/A

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

N/A oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:

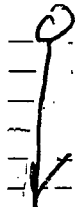
TCLP Volatiles:

TCLP Semi-Volatiles:

Reactivity:

Corrosivity:

Ignitability:

**SECTION 9: Generator's Certification**

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the material tested are representative of all materials described by this document.

Authorized Signature: _____

Date: *7/26/08*

Printed Name/Title: *Bob McKaughan*

3/7/08

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: *Robert McKaughan*

Additional Information: _____

Date: *3-3-08*

Approved

Rejected

Approval Number: *2631*

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

2612

T1W

2612



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 1/31/2008

Dear **Mike Manning**

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2612

Expiration Date 2/8/2010

Generator: TIW (South Main)
Address: 12300 South Main
Houston, TX 77035

Waste Information

Name of Waste: Unused grease

TCEQ Waste Code #: 00036031

Container Type:

Detailed Description of Process Generating Waste:

Unused Jet-Plex-EP 55 gallon drum

Color: red

Odor: slight hydrocarbon

pH: na

Physical State:

Incompatibilities: strong oxidizers

Safety Related Data/Special Handling:

level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO108002227

SR

CES Environmental
Services, Inc.

DB

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
<http://www.cesenvironmental.com>
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: TIW (South Main)
Address: 12300 South Main
City, State, Zip: Houston, TX 77035
Contact: Mike Manning Title: HSE
Phone No: 713-729-2110 Fax No: 713-728-0834
24/hr Phone:
U.S. EPA I.D. No: TXCESQG
State I.D. 30292 SIC Code: N/A

SECTION 2: Billing Information - ☒ Same as Above

Company:
Address:
City, State, Zip:
Contact: Title:
Phone No: Fax No:

SECTION 3: General Description of the WasteName of Waste: Unused GreaseDetailed Description of Process Generating Waste: Unused Jet-Plex-EP in 55 Gallon Drum

Physical State: ☐ Liquid ☒ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: RedOdor: Slight HydrocarbonSpecific Gravity (water=1): 91Density: 7.6 lbs/galDoes this material contain any total phenolic compounds? ☐ Yes ☒ NoDoes this material contain any para substituted phenolic compounds? ☐ Yes ☒ NoLayers: ☐ Single-phase ☒ Multi-phaseContainer Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)Container Size: 55 GalFrequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ YearlyNumber of Units (containers): 1

Other: _____

Texas State Waste Code No:

00036031

Proper U.S. DOT Shipping Name:

Non-RCRA, Non DOT Regulated Waste GreaseClass: NaUN/NA: NaPG: NaRQ: Na

Flash Point >430	pH Na	Reactive Sulfides 0mg/l	Reactive Cyanides 0mg/l	Solids 50-95%
Oil & Grease Allmg/l	TOC Nmg/l	Zinc Nmg/l	Copper Nmg/l	Nickel Nmg/l

SECTION 4: Physical and Chemical Data

Component Name	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Jet-Plex-EP	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS Sheets

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Strong Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ☒ X
 TCLP Volatiles: ☒ X
 TCLP Semi-Volatiles: ☒ X
 Reactivity: ☒ X
 Corrosivity: ☒ X
 Ignitability: ☒ X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Michael C Manning

Date: 02/06/08

Printed Name/Title: MICHAEL C MANNING

MAINTENANCE MGR.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: <u>Robert Thompson</u>	
Date: <u>2-8-08</u>	Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>
Approval Number: <u>2612</u>	

SECTION 10: Waste Receipt Classification Under 40 CFR 437Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

1. Base Pricing (including freight):

\$55/DM
\$69/hr plus FSC

2. Contamination Limits (maximum limit before surcharges apply):

NA

3. Surcharge Pricing:

Na

4. Special Testing Requirements:

Na

5. Treatment and Handling Protocol:

Put in Class 1 Sludge Box

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

Na

8. Management for Product Recovered/Recycled (if applicable):

Na

JET-PLEX-EP™

LITHIUM COMPLEX GREASE

DESCRIPTION

JET-PLEX-EP™ Lithium Complex Grease is the ideal multipurpose grease for use in extreme pressure and high temperature operating conditions. It is the top of the line product for severe applications and general purpose lubricant.

JET-PLEX-EP is manufactured from carefully selected petroleum oils and lithium complex soap to create a multipurpose grease with a dropping point of 550°F (288°C). It has a smooth texture with a heavy body consistency, but provides good pumpability in both hot and cold operating temperatures. **JET-PLEX-EP** has excellent resistance to water and water washout problems. Oil separation is minimal even under extreme pressure. Heat cycling produces only a minor change in consistency. **JET-PLEX-EP** is formulated with special lubricity, anti-wear, and extreme pressure additives and fortified with rust, corrosion and oxidation inhibitors.

- Lithium complex base
- Excellent for high temperatures, high load applications—will not run or pound out
- Pumpable both hot or cold
- Extremely resistant to rust and oxidation
- Smooth in texture
- Color—Red typical
- Available in NLGI “1” and “2” grades

APPLICATIONS

JET-PLEX-EP is recommended for all types of bearing and sliding applications, for shock-loading, pounding, rough chassis usage and high loads. **JET-PLEX-EP** is the multipurpose lubricant that can replace several conventional type greases, resulting in smaller required inventories and less chance of misapplication.

PRODUCT CHARACTERISTICS

Thickener	Lithium Complex
Fluid Type	Petroleum Oil
Color/Appearance	Red
Dropping Point (ASTM D-2265)	>550°F (288°C)
Specific Gravity	0.91
Density (lbs./gal.)	7.6
Additive Type	Organic EP/AW & R&O
Flash Point (ASTM D-92)	>430°F (221°C)
Autoignition Point (Calculated)	>500°F (260°C)
NLGI Grades	1 & 2
Copper Strip Corrosion (ASTM D-4048)	1A
4-Ball (ASTM D-2596)	
Weld Point, kgf	315
Load Wear Index	38
Wear Scar Diameter (ASTM D-2266)	0.45
Oxidation Resistance (ASTM D-942)	
PSI Drop, 100 hours	<5.0
Base Oil Viscosity (ASTM D-445)	
cSt @ 40°C	140 - 200
Wheel Bearing Life Performance (ASTM D-3527)	180 hrs. typ.

PACKAGING

Code No.	Container Size	Container
31750	14 oz.	Cartridge
31705	1 lb.	Can
31706	5 lb.	Can
31716	35 lb.	Pail
31724	120 lb.	Drum
31729	400 lb.	Drum

LIMITED WARRANTY

Jet-Lube, Inc. makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube, Inc. materials and workmanship.

This Limited Express Warranty is expressly in lieu of any other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of Jet-Lube, Inc.

The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and Jet-Lube, Inc. shall not be liable for incidental or consequential damages.

CORPORATE LOCATIONS

Houston, Texas—World Headquarters

Maidenhead, England

Edmonton, Canada

JET-LUBE, INC.
4849 HOMESTEAD RD.,
P.O. BOX 21258 (77226-1258)
HOUSTON, TX 77028

WATS: 800-538-5823
PHONE: 713-674-7617
FAX: 713-678-4604
E-MAIL: sales@jetlube.com
www.jetlube.com

INDUSTRIAL INDUSTRIAL INDUSTRIAL INDUSTRIAL INDUSTRIAL

JET-LUBE, INC.

MATERIAL SAFETY DATA SHEET

Product Name: JET-PLEX-EP™
Chemical Family: Lithium based lubricating grease.
Use: Equipment lubrication

Manufacturer/Supplier: JET-LUBE, INC.
Address: 4849 Homestead Rd., Ste. #200
Houston, TX, 77028 USA **Phone:** 713-674-7617
Emergency Phone: 713-674-7617 **Fax:** 713-678-4604
Chemtrec 24 hours (USA): 800-424-9300

Hazardous Components	CAS No.	Wt%	OSHA PEL	ACGIH TLV	Other Limits of Exposure
Petroleum Oil	64742525/64742014	60-80	Oil Mist TWA-5mg/M³	N/A	N/A
Nonhazardous Blend	7059167/6891936 9003274/6841146 68815496	20-30			

Main Hazards—Health Effects

Eyes: May cause irritation. **Inhalation:** Viscous nature may block breathing passages if inhaled. **Ingestion:** May cause diarrhea.
Skin: For hypersensitive persons, may irritate the skin after prolonged periods of contact.

Eyes: Flush with water until all residual material is gone. If irritation persists, seek medical help.
Inhalation: Clear air passage. If respiratory difficulty continues, seek medical help. **Ingestion:** Consult physician.
Skin: Wash thoroughly with hand cleanser, followed by soap & water. Contaminated clothing should be dry cleaned before reuse.

Extinguishing Media: Foam, dry powder, Halon®, carbon dioxide, sand, earth & water mist. **Unsuitable Extinguishing Media:** Water jet.
Protective Equipment for Fire fighting: Self-contained breathing apparatus.

Personal Precautions: Wear gloves & protective overalls. **Environmental Precautions:** Avoid disposal into drains.
Spillage: Scrape up bulk, then wipe up remainder with cloth. To prevent walking hazard, pick up remaining residue with diatomaceous earth.

Handling: No special handling precautions necessary. **Storage:** Do not store at elevated temperatures.

Respiratory Protection: None needed. **Hand Protection:** Protective gloves for hypersensitive persons.
Eye Protection: Glasses, if applied to parts in motion. **Body Protection:** Overalls.

Physical State: Semisolid paste **Color:** Red **Odor:** Petroleum **pH:** Neutral **Boiling Range/Point °F (°C):** UN
Melting Point °F (°C): N/A **Flash Point (COC) °F (°C):** >430 (221) **Autoignition Temperature °F (°C):** >500 (260)
Explosive Properties: LEL: 0.9% UEL: 7% **Evaporation Rate (Butyl Acetate):** <0.01 **Partition Coefficient (Log Pow):** N/A
Vapor Pressure (kPa): <0.01 **Percent Volatiles:** Nil **Density (g/cm³):** .91 **Flammability:** Not flammable at ambient temperature.
QAR Value: N/A **Oxidizing Properties:** None **Water Solubility:** Nil **Vapor Density:** >5

Stability: Chemically stable under normal conditions. No photoreactive agents. **Conditions to Avoid:** Powerful sources of ignition & extreme temperatures. **Materials to Avoid:** Strong inorganic & organic acids, oxidizing agents. **Hazardous Decomposition Products:** Burning generates smoke, airborne soot, hydrocarbons and oxides of carbon, sulfur and nitrogen. Residue mainly comprised of soot & mineral oxides.

Acute Toxicity: Not known. **Irritancy—Skin:** Very mild. **Skin Sensitization:** Not known. **Subacute/Sub-chronic Toxicity:** Not known.
Genotoxicity: None known. **Chronic Toxicity:** None known. **California Prop 65:** N/A **Carcinogen:** NTP: No IARC: No OSHA: No
EC Classification (67/548/EEC): No **Allergens:** None known. **LC-50:** >2000mg/l—extrapolated from component data. **LD-50:** N/A

Possible Effects: None

Behavior: Relatively well behaved. Bioaccumulation potential nil.

Environmental Fate: Highly unlikely to cause widespread contamination. Nontoxic to marine or land organisms.

Product Disposal: Do not incinerate. Contact waste disposal company or local authority for advice.

Container Disposal: Pails without liner—see Product Disposal section above. Pails with plastic liner—pail may only be disposed of via standard waste disposal services, recycled or reused. Liner—see Product Disposal section above.

Not classified as hazardous for transport. **D.O.T.:** Nonhazardous **UN No.:** Nonhazardous **Air Transport (ICAO & IATA):** Nonhazardous
Sea Transport (IMO & IMDG): Nonhazardous **Road & Rail Transport (ADR/RID):** Nonhazardous


Labeling Information: None needed **EC Annex 1 Classification:** Not Applicable. **R Phrases:** R22—harmful if swallowed.

S Phrases: None applicable, as known. **Ozone Depleting Chemicals:** Not applicable. **TSCA:** All components are listed.

WHMIS (Canada): Not controlled. **Canadian DSL:** All components listed. **40 CFR Part 372 (SARA Section 313):** N/A

CERCLA: Nonhazardous **RCRA Hazard Class:** Nonhazardous **SARA 311/312:** None **TSCA 12B Components:** None

SDS first issued. SDS data revised. **New Jersey Right To Know:** See Section II

Signature: 
Prepared by: Donald A. Oldiges
Date issued: September 1, 2006

As of issue date, the information contained herein is accurate and reliable to the best of JET-LUBE'S knowledge. JET-LUBE® does not warrant or guarantee its accuracy or reliability and shall not be liable for any loss or damage arising out of the use thereof. It is the user's responsibility to satisfy itself that the information offered for its consideration is suitable for its particular use.

LEGEND

- I. IDENTIFICATION OF THE SUBSTANCE/Preparation AND COMPANY
- II. COMPOSITION INFORMATION ON INGREDIENTS
- III. HAZARDS IDENTIFICATION
- IV. FIRST AID MEASURES
- V. FIRE FIGHTING MEASURES
- VI. ACCIDENTAL RELEASE MEASURES
- VII. HANDLING AND STORAGE
- VIII. EXPOSURE CONTROL/PERSONAL PROTECTION
- IX. PHYSICAL AND CHEMICAL PROPERTIES
- X. STABILITY AND REACTIVITY
- XI. TOXICOLOGICAL INFORMATION
- XII. ECOLOGICAL INFORMATION
- XIII. WASTE DISPOSAL
- XIV. TRANSPORT INFORMATION
- XV. REGULATORY INFORMATION
- XVI. OTHER INFORMATION

HMIS SYMBOL

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PPI	B

NFPA SYMBOL



Hydrochem @ Tanga 2613

Waste Pre-Acceptance/Approval Letter

Date 1/31/2008

Dear **David Phillips**

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2613

Expiration Date 2/11/2010

Generator: Hydrochem at Targa Midstream Services

Address: 10319 Hwy 146 North
Mont Belvieu, TX 77580

Waste Information

Name of Waste: Wastewater

TCEQ Waste Code #: CESQ1102

Container Type:

Detailed Description of Process Generating Waste:

Wastewater from precleaning new boiler

Color: varies

Odor: slight

pH: 8-11

Physical State:

Incompatibilities:

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DC

GR
• See 4 needs water % range
of 95-98.5 %
• Category HA ? - yes No
Organics



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
<http://www.cesenvironmental.com>
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information
Company: Hydrochem at Targa Midstream Services
Address: 10319 Hwy 146 North
City, State, Zip: Mont Belvieu, TX 77580
Contact: Rod Stattum Title: _____
Phone No: 713-737-5556 Fax No: _____
24/hr Phone: _____
U.S. EPA ID No: TXCESQG
State ID: CESQG SIC Code: NA

SECTION 2: Billing Information - ☐ Same as Above
Company: Hydrochem
Address: 620 Howard Drive
City, State, Zip: Deer Park, TX 77536
Contact: David Phillips Title: Account Manager
Phone No: 281-935-3931 Fax No: 281-479-8982

SECTION 3: General Description of the Waste
Name of Waste: Wastewater
Detailed Description of Process Generating Waste: wastewater from precleaning a new boiler
Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination
Color: varies Odor: slight
Specific Gravity (water=1): 1 Density: 8.34 lbs/gal
Does this material contain any total phenolic compounds? ☐ Yes ☒ No
Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No
Layers: ☒ Single-phase ☐ Multi-phase
Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: _____ 5000 gal _____
Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 2 Other: One time
Texas State Waste Code No: CESQ1102
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Material
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point >140 200	pH 8-11	Reactive Sulfides 0mg/l	Reactive Cyanides 0mg/l	Solids 0-%
Oil & Grease 0mg/l	TOC mg/l	Zinc 0mg/l	Copper 0mg/l	Nickel 0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Water		
Trisodium Phosphate	0.5-1.5	%
Sodium Metasilicate	0.5-1.5	%
Surfactant F057	0-0.5	%
Soda Ash	0.5-1.5	%
Water	95-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ☒ X
TCLP Volatiles: ☒ X
TCLP Semi-Volatiles: ☒ X
Reactivity: ☒ X
Corrosivity: ☒ X
Ignitability: ☒ X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Jeff Pedderson Date: 2/8/08

Printed Name/Title: Jeff Pedderson, Sr. Env. Specialist

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: <u>Robbhan Thayer</u>	New boiler Commissioning
Date: <u>2-11-08</u> <input checked="" type="radio"/> Approved <input type="radio"/> Rejected	
Approval Number: <u>2613</u>	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☒ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☒ Metals Subcategory
☐ Oils Subcategory
☒ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

Disposal - \$0.15/gallon
Freight - \$350.00/load

2. Contamination Limits (maximum limit before surcharges apply):

Price good for solids <1% and 10,000 TOC

3. Surcharge Pricing:

Solids: \$0.01/gallon/% greater than 1%
TOC: \$0.03/gallon/5000; TOC greater than 10,000 TOC

4. Special Testing Requirements:

TOC, pH, Metals

5. Treatment and Handling Protocol:

6. Treated Wastewater Discharge Subcategory:

☒ Subcategory A

☐ Subcategory B

☐ Subcategory C

7. Tests for Product Recovered/Recycled (if applicable):

NA

8. Management for Product Recovered/Recycled (if applicable):

NA

MATERIAL SAFETY DATA SHEET



Page: 1
DATE PREPARED: 12/22/2000
MSDS No: M003
Soda Ash, light

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Soda Ash, light
Product Code: M003
Product Name: Sodium Carbonate
Chemical Family: Alkaline
Molecular Formula: Na_2CO_3
Generic Name: Soda Ash

MANUFACTURER:

HydroChem Industrial Services, Inc.
900 Georgia Ave.
Deer Park, TX 77536
Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE NUMBERS:

Emergency Contact: HydroChem ER
Emergency Phone (800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

	wt. %	CAS Registry #
Sodium carbonate	100	497-19-8

COMMENTS:

Exposure limits for this product are not established. A TLV of 10 mg/m³ is recommended for dust.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

White powder

IMMEDIATE CONCERNS:

No hazard in normal industrial use.
Dust may be irritating to eyes and respiratory tracts.

MEDICAL CONDITIONS AGGRAVATED:

Persons with pre-existing skin disorders, eye problems or impaired pulmonary function may be at increased risk from exposure.

ROUTES OF ENTRY:

Inhalation

TARGET ORGANS:

No Data

4. FIRST AID MEASURES

EYES:

Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:

Immediately wash with soap and water. Rinse thoroughly. Seek medical attention if effects occur. Launder contaminated shoes and clothing before reuse.

INGESTION:

If swallowed, give 2 glasses of milk (preferred) or water and consult physician.

INHALATION:

Remove to fresh air. See a doctor if effects occur.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not Applicable

Flammable Limits: Not Applicable

Autoignition Temperature: Not Determined

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS:

Sodium oxide, oxides of carbon

FIRE FIGHTING EQUIPMENT:

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Scoop into appropriate containers.

Flush residual with plenty of water.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.



Page: 3

DATE PREPARED: 12/22/2000

MSDS No: M003

Soda Ash, light

STORAGE:

No special precautions required.

Avoid wetting.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles required and an eye wash in work area.

RESPIRATORY:

None normally needed. For protection from dust, use NIOSH approved respirator with dust protection.

PROTECTIVE CLOTHING:

Clean body covering and chemical resistant gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: White

pH: 10.3

Percent Volatile: None

Vapor Pressure: Not Determined

Boiling Point: Decomposes

Solubility in Water: 17 at 68°F

Specific Gravity: 2.509 (water=1)

COMMENTS:

pH: for a 1% solution

Water Solubility: Solubility listed above is grams per 100 grams of water.

10. STABILITY AND REACTIVITY

STABLE: Yes



Page: 4

DATE PREPARED: 12/22/2000

MSDS No: M003

Soda Ash, light

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:

Sodium oxide

INCOMPATIBLE MATERIALS:

Strong acids

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Irritant. May cause pain, redness, discomfort.

Skin: No effect expected. Prolonged or repeated contact may cause mild irritation.

Ingestion: No effect expected. Swallowing large amounts may cause illness.

Inhalation: No effect expected. Prolonged or repeated exposure may cause mild irritation. Dust is irritating.

GENERAL COMMENTS:

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

COMMENTS:

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

RTECS Number: VZ4050000 – sodium carbonate

LD50 (rats) = 4090 mg/kg (sodium carbonate)

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability: Not biodegradable.

Fish Toxicity: Low toxicity to fish.

COMMENTS:

LC50 (P. promelas) = 400 mg/L

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Dispose of in accordance with ALL applicable federal, state and local regulations.



Page: 5
DATE PREPARED: 12/22/2000
MSDS No: M003
Soda Ash, light

EMPTY CONTAINER:

Send empty bags to sanitary landfill. Render other types of containers inuseable by puncturing or crushing and sending to a sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

This material is not a RCRA regulated material.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: Sodium Carbonate - Not Regulated

Reportable Quantity (RQ) Under CERCLA: None

Placards: None

Label: None

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No Pressure Generating: No Reactivity: No Acute: Yes Chronic: N

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Reportable Spill Quantity: Not established

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

16. OTHER INFORMATION

REASON FOR ISSUE:

Biannual review



Page: 6

DATE PREPARED: 12/22/2000

MSDS No: M003

Soda Ash, light

Approved by: Charles M. Maddin, PhD, FAIC
Approval date: 10/19/2000

REVISION SUMMARY

Revision #: 3

This MSDS replaces the November 09, 1998 MSDS. Any changes in information are as follows:

In Section 1

Reason for Issue Date Prepared

In Section 3

Physical Appearance Medical Conditions Aggravated Routes of Entry Target Organs

In Section 9

(pH) (from) (Group Field) for Water Solubility Water Solubility (from) (%) Water Solubility
Temperature °F Water Solubility Comments

In Section 15

SARA Title III Notes

NFPA CODES

Fire: 0 Health: 1 Reactivity: 0

HMIS CODES

Fire: 0 Health: 1 Reactivity: 0

MANUFACTURER DISCLAIMER:

[™] Indicates a trade or service mark of HydroChem Industrial Services, Inc.

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by HydroChem Industrial Services, Inc. regarding the accuracy or completeness of the information.

HydroChem Industrial Services, Inc. shall not be held liable for any damage resulting from the handling, or from contact with the above product.

MATERIAL SAFETY DATA SHEET



Page: 1

DATE PREPARED: 12/22/2000

MSDS No: M008

Trisodium Phosphate, dodecahydrate

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Trisodium Phosphate, dodecahydrate

Product Code: M008

Product Name: Trisodium Phosphate, Dodecahydrate

Molecular Formula: $\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$

Generic Name: Sodium phosphate - tribasic, TSP

MANUFACTURER:

HydroChem Industrial Services, Inc.

900 Georgia Ave.

Deer Park, TX 77536

Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE NUMBERS:

Emergency Contact:

HydroChem ER

Emergency Phone

(800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

	wt. %	CAS Registry #
Trisodium Phosphate Dodecahydrate	~100	10101-89-0

COMMENTS:

The TLV for this product is 10 mg/m³ for dust.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

White Crystal

IMMEDIATE CONCERNS:

No hazard in normal industrial use.

Dust may be irritating to eyes and respiratory tracts.

MEDICAL CONDITIONS AGGRAVATED:

Pre-existing disorders of the skin and lungs.

ROUTES OF ENTRY:

Inhalation

4. FIRST AID MEASURES

EYES:

Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.



Page: 2

DATE PREPARED: 12/22/2000

MSDS No: M008

Trisodium Phosphate, dodecahydrate

SKIN:

Immediately wash with soap and water. Rinse thoroughly. Seek medical attention if effects occur. Launder contaminated shoes and clothing before reuse.

INGESTION:

If swallowed, induce vomiting with ipecac (preferred), or by giving water and sticking finger down throat. After vomiting give milk (preferred) or water and consult physician.

INHALATION:

If effects occur, remove to fresh air. See a doctor at once. If breathing has stopped, begin artificial respiration.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not Applicable
Flammable Limits: Not applicable
Autoignition Temperature: Not Determined

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS:

Phosphorus oxide

FIRE FIGHTING EQUIPMENT:

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Sweep up and place in bag.
Avoid raising dust.
Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.



Page: 3

DATE PREPARED: 12/22/2000

MSDS No: M008

Trisodium Phosphate, dodecahydrate

STORAGE:

No special precautions required.
Avoid wetting.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles required and an eye wash in work area.

RESPIRATORY:

None normally needed. For protection from dust and mist, use NIOSH approved respirator with dust and mist protection.

PROTECTIVE CLOTHING:

Clean body covering and chemical resistant gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Crystal

Color: White

pH: 11.6

Percent Volatile: Not Available

Vapor Pressure: Not Determined

Melting Point: 167°F 75°C Decomposes

Solubility in Water: 28

Specific Gravity: 1.62 (water=1)

COMMENTS:

pH: pH listed above is for a 1% solution

Water Solubility: Solubility listed above is grams per 100 grams.

10. STABILITY AND REACTIVITY

STABLE: Yes



Page: 4

DATE PREPARED: 12/22/2000

MSDS No: M008

Trisodium Phosphate, dodecahydrate

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:
Phosphorus oxide

INCOMPATIBLE MATERIALS:
Strong acids

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Severe irritant. Causes pain and redness. Prolonged or repeated contact may cause mild burn.

Skin: Irritant. May cause pain, redness, dermatitis. Not likely to be absorbed in toxic amounts.

Ingestion: Irritant. May cause pain or discomfort to mouth, throat and stomach.

Inhalation: Severe irritant. Causes pain, choking, coughing, burning sensation. Can cause soreness.

TARGET ORGANS:

Skin, Eyes, Respiratory tract

GENERAL COMMENTS:

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

COMMENTS:

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

LD50 (rat) = 7,400 mg/kg

RTECS Number: TC9575000

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability: Not biodegradable.

Fish Toxicity: Low toxicity to fish expected.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Dispose of in accordance with ALL applicable federal, state and local regulations.



Page: 5

DATE PREPARED: 12/22/2000

MSDS No: M008

Trisodium Phosphate, dodecahydrate

EMPTY CONTAINER:

Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sending to a sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

This material is not a RCRA regulated material.

COMMENTS:

Always follow ALL applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: Environmentally Hazardous Substance, solid, N.O.S. (sodium phosphate, tribasic)

Hazard Class: 9

NA/UN Number: UN3077

Packing Group: III

Reportable Quantity (RQ) Under CERCLA: 5000 lb

Placards: Class 9

Label: Class 9

SPECIAL SHIPPING NOTES:

Not regulated unless RQ exceeded in a single container.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No Pressure Generating: No Reactivity: No Acute: Yes Chronic: No

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Reportable Spill Quantity: 5000 lb

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.



Page: 6

DATE PREPARED: 12/22/2000

MSDS No: M008

Trisodium Phosphate, dodecahydrate

16. OTHER INFORMATION

REASON FOR ISSUE:

Biannual review

Approval date: 10/20/2000

REVISION SUMMARY

Revision #: 2

This MSDS replaces the August 18, 1998 MSDS. Any changes in information are as follows:

In Section 1

Reason for Issue Date Prepared

In Section 3

Physical Appearance Medical Conditions Aggravated Routes of Entry

In Section 11

Target Organ

NFPA CODES

Fire: 0 Health: 2 Reactivity: 0

HMIS CODES

Fire: 0 Health: 2 Reactivity: 0

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MATERIAL SAFETY DATA SHEET



Page: 1

DATE PREPARED: 12/22/2000

MSDS No: M009

Sodium Metasilicate

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Sodium Metasilicate

Product Code: M009

Product Name: Sodium Metasilicate

Chemical Family: Alkaline

Molecular Formula: $\text{Na}_2\text{SiO}_3 \cdot 5\text{H}_2\text{O}$

Generic Name: Sodium Metasilicate - pentahydrate, Disodium metasilicate

MANUFACTURER:

HydroChem Industrial Services, Inc.

900 Georgia Ave.

Deer Park, TX 77536

Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE NUMBERS:

Emergency Contact:

HydroChem ER

Emergency Phone

(800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

	<u>wt. %</u>	<u>CAS Registry #</u>
Sodium Metasilicate, pentahydrate	100	6834-92-0

COMMENTS:

Exposure limits for this product are not established.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

White Crystal

IMMEDIATE CONCERNS:

Corrosive.

Do not get in eyes, on skin or clothing.

Do not breath dust

MEDICAL CONDITIONS AGGRAVATED:

Persons with pre-existing skin disorders, eye problems or impaired pulmonary function may be at increased risk from exposure.

ROUTES OF ENTRY:

Skin and eye contact and inhalation



4. FIRST AID MEASURES

EYES:

Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:

Immediately wash with soap and water. Rinse thoroughly. Seek medical attention if effects occur. Launder contaminated shoes and clothing before reuse.

INGESTION:

Do not induce vomiting. Give 2 glasses of milk (preferred) or water and take to hospital at once.

INHALATION:

Remove to fresh air. See a doctor if effects occur.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not Applicable

Flammable Limits: Not Applicable

Autoignition Temperature: Not Applicable

GENERAL HAZARD:

Corrosive when wet.

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS:

Forms sodium ions and silicic acid when heated to decomposition.

FIRE FIGHTING EQUIPMENT:

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Scoop into appropriate containers.

Flush residual with plenty of water.



Page: 3

DATE PREPARED: 12/22/2000

MSDS No: M009

Sodium Metasilicate

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.

STORAGE:

No special precautions required.

Avoid wetting.

Store away from oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles with face shield required and an eye wash in work area.

RESPIRATORY:

Use NIOSH approved respirator with dust and mist protection.

PROTECTIVE CLOTHING:

Face shield, boots, protective suit and impervious (neoprene) gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: White

pH: 12.5

Percent Volatile: None

Boiling Point: Not Determined

Melting Point: Not Determined

Solubility in Water: Soluble

Specific Gravity: 1.75 (water=1)

COMMENTS:

pH: for a 1% solution

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:

Forms sodium ions and silicic acid when heated to decomposition.

INCOMPATIBLE MATERIALS:

Acids, Aluminum

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Corrosive. Rapidly causes pain, burns, corneal injury. May cause permanent damage and blindness.

Skin: Severe irritant. Causes pain, redness, dermatitis or mild burn. Not likely to be absorbed in toxic amounts.

Ingestion: Irritant. Harmful if swallowed. Causes pain and severe burns to mouth, throat and stomach. Large amounts may cause illness or death.

Inhalation: Irritant. May cause pain and coughing.

TARGET ORGANS:

Respiratory Tract, Digestive System, Kidney, Ureter, Bladder and Paternal Reproductive System (testes, epididymis, sperm duct)

GENERAL COMMENTS:

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

COMMENTS:

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

RTECS Number: VV9275000

Oral LD50 (rats) for anhydrous material is 1153 mg/kg.

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability: Not biodegradable.

Fish Toxicity: No information

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Ship via permitted waste hauler to permitted hazardous waste disposal facility for landfilling.

EMPTY CONTAINER:

Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sending to a sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

RCRA Hazardous Waste Number: D002 (corrosive)

COMMENTS:

Always follow ALL applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: Disodium Trioxosilicate

Hazard Class: 8

NA/UN Number: UN3253

Packing Group: III

Reportable Quantity (RQ) Under CERCLA: None

Placards: Corrosive

Label: Corrosive - 8

15. REGULATORY INFORMATION

DOT Label Symbol and Statement of Hazard



DOT Corrosive

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No Pressure Generating: No Reactivity: No Acute: Yes Chronic: Yes

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).



Page: 6

DATE PREPARED: 12/22/2000

MSDS No: M009

Sodium Metasilicate

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
Reportable Spill Quantity: Not established

TSCA (TOXIC SUBSTANCE CONTROL ACT)
TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

16. OTHER INFORMATION

REASON FOR ISSUE:

Biannual review

Approval date: 10/20/2000

REVISION SUMMARY

Revision #: 4

This MSDS replaces the April 04, 2000 MSDS. Any changes in information are as follows:

In Section 1

Reason for Issue Date Prepared

In Section 3

Emergency Overview - Immediate Concerns Physical Appearance Medical Conditions Aggravated Routes of Entry

In Section 11

Target Organ

NFPA CODES

Fire: 0 Health: 3 Reactivity: 0

HMIS CODES

Fire: 0 Health: 3 Reactivity: 0



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DATE PREPARED: 12/22/2000

MSDS No: M009

Sodium Metasilicate

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MATERIAL SAFETY DATA SHEET



Page: 1

DATE PREPARED: 10/08/1999

MSDS No: F057

Surfactant F057

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Surfactant F057
Product Code: F057
Product Name: Surfactant F057
Chemical Family: Surface active agents
Generic Name: Water soluble surfactant

MANUFACTURER:

HydroChem Industrial Services, Inc.
900 Georgia Ave.
Deer Park, TX 77536
Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE NUMBERS:

Emergency Contact: HydroChem ER
Emergency Phone: (800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

	<u>wt. %</u>	<u>CAS Registry #</u>
Proprietary Blend of Anionic and Nonionic Surfactants (trade secret)	100	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS:

May be harmful by
Skin Contact
Ingestion
Eye contact

4. FIRST AID MEASURES

EYES:

Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:

Wash thoroughly with soap and water. See a doctor if irritation occurs. Wash clothes thoroughly before reusing.

INGESTION:

If swallowed, induce vomiting with ipecac (preferred), or by giving water and sticking finger down throat. After vomiting give milk (preferred) or water and consult physician.



INHALATION:

Remove to fresh air. See a doctor if effects occur.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: >200°F 93°C TAG CC

Flammable Limits: Not established

Autoignition Temperature: Not Established

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS:

When heated strongly or burned, carbon oxides, hydrogen sulfide, sulfur oxides and harmful organic chemical fumes are released.

FIRE FIGHTING EQUIPMENT:

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Contain with dikes.

Put in plastic drum.

Soak up residual on inert absorbant (dry sand, vermiculite, earth).

Wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.

STORAGE:

No special precautions required.

Store away from oxidizers.



Page: 3

DATE PREPARED: 10/08/1999

MSDS No: F057

Surfactant F057

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles required and an eye wash in work area.

RESPIRATORY:

None normally needed. Use NIOSH approved respirator with organic vapor/acid gas protection (color coded yellow) if vapors are generated and for emergencies.

PROTECTIVE CLOTHING:

Clean body covering and chemical resistant gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.

COMMENTS:

Exposure limits not established.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Odor: Detergent

Color: Yellow

pH: 6.5 to 7.5

Percent Volatile: 18

Vapor Pressure: Not Determined

Vapor Density: >1 (Air = 1)

Boiling Point: Not Determined

Freezing Point: Not Determined

Solubility in Water: Completely Miscible in All Proportions

Specific Gravity: 1.07 (water=1) at 68°F

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:

When heated strongly or burned, carbon oxides, hydrogen sulfide, sulfur oxides and harmful organic chemical fumes are released.

INCOMPATIBLE MATERIALS:

Oxidizing materials.

11. TOXICOLOGICAL INFORMATION**ACUTE**

Eyes: Severe irritant. Causes pain and redness. Prolonged or repeated contact may cause mild burn.

Skin: No effect expected. Prolonged or repeated contact may cause mild irritation.

Ingestion: No effects expected. Swallowing large amounts may cause illness.

LD(50) = 2 g/kg (rats)

Inhalation: No effect expected. Prolonged or repeated exposure may cause mild irritation. Mist is irritating.

GENERAL COMMENTS:

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

12. ECOLOGICAL INFORMATION**GENERAL COMMENTS:**

Degradability: Partially biodegradable.

Fish Toxicity: Toxic to fish. Do not allow to enter waterway.

COMMENTS:

LC(50) (P. promelas) = 7 mg/L

13. DISPOSAL CONSIDERATIONS**PRODUCT DISPOSAL:**

Dispose of in accordance with ALL applicable federal, state and local regulations.

EMPTY CONTAINER:

Leave label on drum and sell drum to an approved drum reconditioner or triple rinse with an appropriate solvent, crush, and ship to sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

This material is not a RCRA regulated material.



Page: 5

DATE PREPARED: 10/08/1999

MSDS No: F057

Surfactant F057

COMMENTS:

Always follow ALL applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
Proper Shipping Name: Surfactant- Nonregulated
Reportable Quantity (RQ) Under CERCLA: None
Placards: None

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No Pressure Generating: No Reactivity: No Acute: Yes Chronic: No

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Reportable Spill Quantity: None Specified

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

16. OTHER INFORMATION

REASON FOR ISSUE:

Biannual review

Approved by: Charles M. Maddin, PhD, FAIC

Approval date: 10/08/1999



Page: 6

DATE PREPARED: 10/08/1999

MSDS No: F057

Surfactant F057

REVISION SUMMARY

Revision #: 6

This MSDS replaces the August 13, 1998 MSDS. Any changes in information are as follows:

In Section 16

Reason for Issue

In Section 9

Specific Gravity Temperature °F

In Section 11

Acute Skin

In Section 15

SARA Title III Notes

NFPA CODES

Fire: 1 Health: 3 Reactivity: 0

HMIS CODES

Fire: 1 Health: 2 Reactivity: 0

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2614 Andrews Transport
2614



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Material / Product Approval Letter

Date 2/15/2008

Dear Dale Mize

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2614

Expiration Date 2/15/2010

Producer: Andrews Transport Inc.

Address: 6635 John Ralston
Houston, TX 77049

Material / Product Information

Name of Material / Product Caustic soda liquid 50%

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused product from trucking company

Color: clear

Odor: none

pH: 14

Physical State:

Incompatibilities: see msds

Safety Related Data/Special Handling:

corrosive material; wear rubber gloves, rubber apron, safety goggles or full face shield, protective clothing

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO108002270



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

DC

SECTION 1: Material Producer Information

Company: Andrews Transport
Address: 6635 John Ralston
City, State, Zip: Houston, TX 77049
Contact: Dale Mize Title: Terminal Manager
Phone No: 832-295-1324 Fax No: 281-458-3674
24/hr Phone:
U.S. EPA I.D. No: TXD109004341
State I.D. 38474 SIC Code: NA

SECTION 2: Billing Information - ☒ Same as Above

Company:
Address:
City, State, Zip:
Contact: Title:
Phone No: Fax No:

SECTION 3: General Description of the Material / Product

Name of Material / Product: Caustic Soda Liquid 50%

Detailed Description of Process Generating or Producing the Material / Product: Unused product from trucking company

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: clear

Odor: none

Specific Gravity (water=1): 1.53

Density: 12-13 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Container Size: _____ 4000 gal _____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly

Number of Units (containers): 1 Other: _____

Product

Proper U.S. DOT Shipping Name: Sodium Hydroxide Solution

Class: 8

UN/NA: UN1824

PG: II

RQ: 1000lb

Flash Point NA	pH 14	N/A	N/A	Solids 1-2%
Oil & Grease 0mg/l	TOC 0mg/l	Zinc 0mg/l	Copper 0mg/l	Nickel 0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Sodium Hydroxide	40-50	%
Water	40-50 50-60	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.

CORROSIVE MATERIAL! Wear rubber gloves, rubber apron, safety goggles or full face shield, protective clothing

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.

MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

see MSDS
acid, metals such as aluminum, zinc, tin, etc, chromium, brass, bronze, copper, lead, other alkali sensitive metals or alloys, organic materials, organic nitro compounds, chlorinated hydrocarbons, fluorinated hydrocarbons, acetaldehyde, chlorine trifluoride, hydroquinone, maleic anhydride, tetrahydrofuran, acrolein, phosphorous, trichloroethylene, leather, wool, phosphorous pentoxide, halogenated compounds, glycols, explosives, acrylonitrile, 1,2 dichloroethylene, tetrachloroethane, organic peroxides, sodium tetrahydroborate, food sugars

SECTION 8: Material Producer's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: N/A Date: _____

Printed Name/Title: None Needed - Product

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: <u>[Signature]</u>	
Date: <u>2-15-08</u>	<input checked="" type="radio"/> Approved <input type="radio"/> Rejected
Approval Number: <u>2614</u>	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

None

8. Management for Product Recovered/Recycled (if applicable):

Settle product in tank. Pump out all BUT 500 gallons off the BOTTOM and deliver to customer as 50% caustic product. The last 500 gallons will be titrated down to a 10% solution and filter pressed. Once pressed, mix with spent caustic.



Approx 4000 gal

MATERIAL SAFETY DATA SHEET**CAUSTIC SODA LIQUID 50%****MSDS ID: AL0050****Revised: 10-06-2005****Replaces: 05-05-2005****1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: CAUSTIC SODA LIQUID 50%
MSDS ID: AL0050
Synonyms: Lye; Sodium Hydroxide Solution; Alkali; Caustic; Sodium Hydrate
CAS Number: 1310-73-2
Chemical Family: Alkali
Formula: 50% NaOH

DISTRIBUTED BY:
Hydrite Chemical Co.
300 N. Patriot Blvd.
Brookfield, WI 53006-0948
(262) 782-1450

EMERGENCY RESPONSE NUMBERS:
24 Hour Emergency #: (414) 277-1311
CHEMTREC Emergency #: (800) 424-9300

MANUFACTURED BY: Occidental Chemical; PPG Industries; Olin Chlor Alkali; Vulcan Chemical; K.A. Steel Chemicals; Old World Industries; Basco Chemical Solutions; Pioneer

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGER! CORROSIVE. Causes severe burns to eyes, skin, and respiratory tract. Not flammable, but reacts with most metals to form explosive/flammable hydrogen gas. Harmful or fatal if swallowed. May be harmful or fatal if inhaled. DANGER! May react violently with water.

Physical State: Liquid.
Color: Clear to slightly turbid. Colorless to slightly colored.
Odor: No odor.

POTENTIAL HEALTH EFFECTS

Routes Of Exposure: Eyes, Skin, Inhalation, Ingestion.

Target Organs: Eyes, Skin, Respiratory System.

Eye Contact: CORROSIVE-Causes severe irritation and burns. Small amounts may cause: permanent eye damage, blindness, corneal damage. Mist may cause: irritation. High mist concentrations may cause: tissue destruction. Effects may vary depending on length of exposure, solution concentration and first aid measures.

Skin Contact: CORROSIVE-Causes severe irritation and burns. Corrosive action causes burns and frequently deep ulceration with ultimate scarring. Note that irritation may follow an initial latency. The latency may vary as much as hours for dilute solutions to minutes for more concentrated solutions. Prolonged contact, even with dilute concentrations, can cause tissue destruction and permanent skin damage. Dust or mist from solutions can cause irritant dermatitis. Repeated exposure may cause: dermatitis (inflammation of the skin).

Skin Absorption: No absorption hazard expected under normal use.

MATERIAL SAFETY DATA SHEET**CAUSTIC SODA LIQUID 50%**

MSDS ID: AL0050

Revised: 10-06-2005

Replaces: 06-06-2005

Inhalation: CORROSIVE-Causes severe irritation and burns. Dusts or mists may irritate: nose, mouth, throat, respiratory tract. Dusts or mists may cause damage to the: upper respiratory tract, lungs. May cause: coughing, sneezing, running nose, sore throat, shortness of breath, wheezing, tightness of the chest, chest pain, choking. Impaired lung function, pneumonia, pulmonary edema.

Ingestion: CORROSIVE-Causes severe irritation and burns. May cause damage to the: mouth, throat, stomach, gastrointestinal tract. Ingestion can cause severe burns and complete tissue perforation of the mucous membranes of the mouth, throat and stomach. May be fatal if swallowed. May cause: abdominal pain, nausea, vomiting, diarrhea, bleeding, fall in blood pressure, shock, collapse, gastrointestinal ulceration. Damage may appear days after exposure.

Medical Conditions Aggravated By Exposure To Product: Skin disorders. Lung disorders. Cardiovascular disorders. Eye disorders. Respiratory system disorders.

Other: None known.

Cancer Information: This product does not contain greater than 0.1% of the known or potential carcinogens listed in NTP, IARC, or OSHA.

Potential Environmental Effects: See Section 12.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>OSHA Hazard</u>	<u>% by Wt.</u>
Sodium Hydroxide	1310-73-2	YES	40 - 50 %
Water	7732-18-5	NO	40 - 50 %

4. FIRST-AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention. Washing eyes within several seconds is essential to achieve maximum effectiveness. Do not attempt to neutralize with chemical agents. Oils or ointments should not be used at this time.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Do not reuse clothing and shoes until cleaned. If skin feels slippery, caustic may still be present in sufficient quantities to cause rash or burn. Continue washing skin until slick feeling is gone. Do not apply oils or ointments unless ordered by the physician. Discard footwear which cannot be decontaminated. Discard contaminated leather articles such as shoes and belt.

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY. Symptoms of pulmonary edema can be delayed up to 48 hours after exposure.

Ingestion: If fully conscious, drink a quart of water. DO NOT induce vomiting. CALL A PHYSICIAN IMMEDIATELY. If unconscious or in convulsions, take immediately to a hospital or a physician. NEVER induce vomiting or give anything by mouth to an unconscious victim. If vomiting occurs spontaneously, keep head below

MATERIAL SAFETY DATA SHEET

CAUSTIC SODA LIQUID 50%

MSDS ID: AL0050

Revised: 10-06-2005

Replaces: 05-05-2005

helps to prevent aspiration of liquid into the lungs. If vomiting occurs spontaneously, keep airway clear and give more water.

Note to Physicians: The absence of visible signs or symptoms of burns does not reliably exclude the presence of actual tissue damage. Probable mucosal damage may contraindicate the use of gastric lavage. There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Not combustible. For fires in area use appropriate media. For example: Water spray. Dry chemical. Carbon dioxide. Foam.

Fire Fighting Methods: Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-Approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers, but avoid getting water into containers. Product generates heat upon addition of water, with possible spattering. Run-off from fire control may cause pollution.

Fire And Explosion Hazards: Product may react with some metals (ex.: Aluminum, Zinc, Tin, etc.) to release flammable hydrogen gas.

Hazardous Combustion Products: None known.

6. ACCIDENTAL RELEASE MEASURES

Spill Clean-Up Procedures: CORROSIVE MATERIAL. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit. Contain spill, place into drums for proper disposal. Neutralize remaining residue with dilute Hydrochloric Acid solution and dispose of properly. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs. **CAUTION:** This product may react violently with acids and water.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling. **CORROSIVE MATERIAL.** Avoid dust or mist formation. Add product very slowly while stirring constantly. If product is added too rapidly or without stirring and becomes concentrated at the bottom of the mixing vessel, excessive heat may be generated resulting in dangerous boiling and spattering and possible immediate violent eruption of highly caustic solution.

Storage: CORROSIVE MATERIAL. Store in a cool, well ventilated area, out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Highly corrosive to most metals with evolution of hydrogen gas. Do not freeze. Do not expose sealed containers to temperatures above 104 Deg. F. Deadly carbon monoxide gas can form in enclosed or poorly ventilated areas or tanks when alkaline products contact food, beverage, or dairy products. Do not enter such areas until they have been well ventilated and carbon monoxide and oxygen levels

MATERIAL SAFETY DATA SHEET**CAUSTIC SODA LIQUID 50%**

MSDS ID: AL0050

Revised: 10-06-2005

Replaces: 06-06-2006

have been determined to be within OSHA acceptable limits. If carbon monoxide and oxygen levels cannot be measured, wear NIOSH-approved, self-contained breathing apparatus. *** ANSI/NSF Standard 60 Maximum Use Level = 100 mg/L ***

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines:**

Component	OSHA PEL	OSHA STEL/C	ACGIH TWA	ACGIH STEL/C
Sodium Hydroxide	2 mg/m3 Not Estab.	Not Estab. C 2 mg/m3+	Not Estab.	C 2 mg/m3
Water	Not Estab.	Not Estab.	Not Estab.	Not Estab.

Note: C = Denotes Ceiling Limit. + Vacated 1989 OSHA PEL(s).

Engineering Controls: General room ventilation is required. To keep exposure below established limits, local exhaust may be necessary. Avoid breathing dust or mist. Maintain adequate ventilation. Do not use in closed or confined spaces. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly. NOTE: Where carbon monoxide may be generated, special ventilation may be required.

Eye/Face Protection: Wear chemical safety goggles and a full face shield while handling this product. Do not wear contact lenses.

Skin Protection: Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: Natural rubber, Butyl rubber, Neoprene, Nitrile, Polyvinyl chloride, Polyethylene.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. If exposure limits are exceeded, wear: NIOSH-Approved respirator for dusts and mists, NIOSH-Approved Supplied Air Respirator (SAR), NIOSH-Approved self-contained breathing apparatus. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z89.2 requirements and must be followed whenever workplace conditions require a respirator's use.

Other Protective Equipment: Eye-wash station. Safety shower. Rubber apron. Rubber boots. Protective clothing.

General Hygiene Conditions: Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid.

Color: Clear to slightly turbid. Colorless to slightly colored.

Odor: No odor.

Boiling Point (deg. F): -284-293

Freezing Point (deg. F): -60-58

Melting Point (deg. F): -60-58

Vapor Pressure (mm Hg): ~1-1.5 @ 20C

Vapor Density (air=1): N.D.

MATERIAL SAFETY DATA SHEET**CAUSTIC SODA LIQUID 50%****MSDS ID: AL0050****Revised: 10-06-2005****Replaces: 05-05-2005****12. ECOLOGICAL INFORMATION****Ecotoxicological Information:** Extensive data, call for information.**Chemical Fate Information:** Extensive data, call for information.**13. DISPOSAL CONSIDERATIONS****Hazardous Waste Number:** D002**Disposal Method:** Dispose of in a permitted hazardous waste management facility following all local, state and federal regulations. If approved, neutralize material and flush to sewer. **DO NOT** pressurize, cut, weld, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition.**14. TRANSPORTATION INFORMATION****DOT (Department of Transportation):****Proper Shipping Name:** Sodium Hydroxide, Solution**Hazard Class:** 8**Identification Number:** UN1824**Packing Group:** II**Label Required:** CORROSIVE**Reportable Quantity (RQ):** 1000# (Sodium Hydroxide).**15. REGULATORY INFORMATION****U.S. FEDERAL REGULATIONS****TSCA Inventory Status:** All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.**SARA Title III Section 311/312 Category:****Immediate (Acute) Health Hazard:** Y**Delayed (Chronic) Health Hazard:** N**Fire Hazard:** N**Sudden Release Of Pressure Hazard:** N**Reactive Hazard:** Y**SARA Section 302/304/313/HAP:****Component**

Sodium Hydroxide

Water

CERCLA RQ

1000

N.A.

SARA RQ

N.A.

N.A.

SARA TPQ

N.A.

N.A.

SARA 313

NO

NO

U.S. HAP

NO

NO

2615 GSF Energy LLC
2615



4904 Groggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/13/2008

Dear Gary Valdez

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2615

Expiration Date 2/12/2010

Generator: GSF Energy, LLC
Address: 9416 Ley Rd
Houston, TX 77078

Waste Information

Name of Waste: Non-hazardous oil and soil

TCEQ Waste Code #: 00136031

Container Type:

Detailed Description of Process Generating Waste:

Cleanup of oil and soil from sumps around processing equipment

Color: varies

Odor: hydrocarbon

pH: na

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

std ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO108002280

GRP

OK w/ sampling + testing
notes



CES Environmental
Services, Inc.

DB

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: GSF Energy, LLC.
Address: 9416 Ley Road
City, State, Zip: Houston, TX 77078
Contact: Gary Valdez Title: Plant Supervisor
Phone No: (713) 633-9320 Fax No: 713-635-7935
24/hr Phone: (713) 633-9320
U.S. EPA ID. No: N/A
State ID: 72146 SIC Code: NA

SECTION 2: Billing Information - ☒ Same as Above

Company: _____
Address: _____
City, State, Zip: _____
Contact: _____ Title: _____
Phone No: _____ Fax No: _____

SECTION 3: General Description of the Waste

Name of Waste: Non Hazardous Oil and Soil

Detailed Description of Process Generating Waste: Cleanup of oil and soil from surps around processing equipment

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: Varies

Odor: Hydrocarbon

Specific Gravity (water=1): N/A

Density: N/A lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly

Number of Units (containers): 4 Other: _____

4 Texas State Waste Code No: 00136031

Proper U.S. DOT Shipping Name: Non DOT regulated TPH Contaminated Soil

Class: Na UN/NA: Na PG: Na RQ: Na

Flash Point >200	pH N/A	Reactive Sulfides N/A mg/l	Reactive Cyanides N/A mg/l	Solids 85-100%
Oil & Grease N/A mg/l	TOC N/A mg/l	Zinc N/A mg/l	Copper N/A mg/l	Nickel N/A mg/l

SECTION 4: Physical and Chemical Data

Physical and Chemical Data	Concentration	Date
The waste consists of the following materials	Ranges are acceptable	or %
Dirt	80-90	%
Oil	1-10	%
Water	1-10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

~~None~~ Analytical

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:

TCLP Volatiles:

TCLP Benzene

TCLP Semi-Volatiles:

Below Regulatory Limits

Reactivity:

Corrosivity:

Ignitability:

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: September 30, 2005

Printed Name/Title: Gary Valez, Plant Supervisor

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Chay

Additional Information: _____

Date: 2-12-08

Approved

Rejected

Approval Number: 2615

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
☐ Oils Subcategory
☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

**PROCESS FACILITY INFORMATION (CES USE ONLY!!)****1. Base Pricing (including freight):**

\$55/dm
Trans \$69/hr plus FSC

2. Contamination Limits (maximum limit before surcharges apply):

None

3. Surcharge Pricing:

NA

4. Special Testing Requirements:

No The material in these drums should be at least 80% dirt. The other constituents should be oil and water. ~~this~~ Conformance to this composition can be made by just looking at the sample from the drum and by how far the sampling tube goes into the drum.

5. Treatment and Handling Protocol:

Put in Class I Solids or Sludge Box for Landfill

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

Na

8. Management for Product Recovered/Recycled (if applicable):

Na



ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St.
La Porte, TX 77571
281.471.0951 FAX: 281.471.5821

Express Laboratories

CERTIFICATE OF ANALYSIS NO: 62831.01
1 of 1

Customer: CES Env. Svcs.
Project ID:
Project Loc:
Charge/P.O.:

Sample ID: Soil & Oil
0108-48
Matrix: Soil
Type: Grab

Environ ID: 62831.01
Sampled:
Received: 01-22-08
Reported: 01-30-08

RECEIVED BASIS

ANALYTE / PARAMETER	RESULT	UNITS	REG. LIMIT	MQL	TEST METHOD	TEST BY	DATE	TIME
BENZENE TCLP								
Benzene	< 0.001	mg/l	--	0.001	SW846.8021B	DMB	01-24-08	12:49
RCI								
Reactive Cyanide	< 50	mg/kg	250	50	EPA SW846.7.3	OLC	01-24-08	09:45
Reactive Sulfide	< 50	mg/kg	500	50	EPA SW846.7.3	OLC	01-24-08	09:50
Corrosivity (pH)	6.86	su	=>2; =<12.5	--	SW846.9045C	LC	01-24-08	09:30
Ignitability	> 160	°F	> 140	--	SW846.1010M	LC	01-30-08	06:08
METALS (RCRA) - TCLP					SW846.1311	MN	01-22-08	
Arsenic	< 0.02	mg/l	5.00	0.02	SW846.6010B	JA	01-23-08	18:30
Barium	2.16	mg/l	100	0.02	SW846.6010B	JA	01-23-08	18:30
Cadmium	< 0.02	mg/l	1.00	0.02	SW846.6010B	JA	01-23-08	18:30
Chromium	< 0.02	mg/l	5.00	0.02	SW846.6010B	JA	01-23-08	18:30
Lead	< 0.02	mg/l	5.00	0.02	SW846.6010B	JA	01-23-08	18:30
Selenium	< 0.05	mg/l	1.00	0.05	SW846.6010B	JA	01-23-08	18:30
Silver	< 0.05	mg/l	5.00	0.05	SW846.6010B	JA	01-23-08	18:30
Mercury	< 0.002	mg/l	0.200	0.002	SW846.7470A	MN	01-23-08	10:50

Definitions: TCLP - Toxicity Characteristic Leaching Procedure TPH - Total petroleum Hydrocarbons

REG - Regulatory Limit (User Should Confirm Limits)

MQL - Method Quantitation Limit

PPM - Parts Per Million

mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller, Ph.D
Laboratory Director

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS: BTEX	METHOD: EPA SW846/5030/8021B	MATRIX: LEACHATE
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ANALYST: dmb	UNITS: mg/l	NO. SAMPLES: 20
--------------	-------------	-----------------

SAMPLES:	62809-01	62811-01	62811-02	62811-03	62811-04	62818-01	62818-02	62818-03
	62818-04	62830-01	62830-02	62830-03	62831-01	62831-02	62835-01	62835-02
	62843-01	62844-01	62844-02	62845-01				

MATRIX 62830-01	MATRIX RESULTS	SPIKE ADDED	MS RESULTS	MS REC	MSD REC	RPD	CCV REC	MB	QC LIMITS (%)	
									REC-RANGE	RPD
BENZENE	0	100	89	89	88	0	93	0	60 - 120	20
TOLUENE	0	100	91	91	91	0	91	0	60 - 120	20
EI-BENZENE	0	100	89	89	86	3	93	0	60 - 120	20
XYLENES	0	300	283	94	93	2	94	0	60 - 120	20
MTBE	0	100	116	116	107	8	110	0	60 - 120	20

KEY:

BTEX - Benzene (BENZ), Toluene (TOL)

Ethylbenzene (ETBZ), Xylenes (XYLS)

MTBE - Methyl-tert-butyl ether

CCV - Continuing Calibration Verification


MB - Method Blank

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD - Relative Percent Difference

REC - Recovery Percent


 JOHN KELLER, Ph.D.
 Lab. Dir./QA-QC Mgr.

1/30/08

DATE

ENVIRON EXPRESS QUALITY CONTROL REPORT

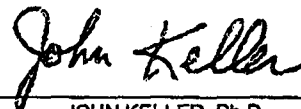
ANALYSIS: METALS METHOD: EPA SW846/6010 MATRIX: LIQUID

ANALYST: JA DATE: 01.23.08 UNITS: PPM (mg/l) NO. SAMPLES: 13

SAMPLES:	62830.01	62830.02	62830.03	62832.01	62820.01	62822.01	62822.02	62779.01*
	62826.01	62828.01	62829.01	62831.01	62831.02			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS BATCH ID: 62830.01

SAMPLE Matrix	SAMPLE RESULTS	SPIKE ADDED	SPIKE RESULTS	RECOV. %	RECOV. DUP. %	REL. DIFF. %	CONT. CALIB.	METHOD BLANK	QC LIMITS	
									RECOV.	DIFF.
Arsenic	0.00	5	4.51	90	102	12	99	0	75 - 125	20
Barium	0.00	5	4.44	89	99	11	101	0	75 - 125	20
Cadmium	0.00	5	4.20	84	95	13	103	0	75 - 125	20
Chromium	0.00	5	4.30	86	96	11	100	0	75 - 125	20
Lead	0.00	5	4.26	85	95	11	101	0	75 - 125	20
Selenium	0.00	5	4.88	98	109	11	101	0	75 - 125	20
Silver	0.00	5	4.08	82	93	13	102	0	75 - 125	20

JOHN KELLER, Ph.D.
Laboratory Director

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS: MERCURY METHOD: EPA SW846/7471A MATRIX: LIQUID

ANALYSTS: MN DATE: 01-23-08 UNITS: mg/l NO.SAMPLES: 12

SAMPLES:	62820.01	62822.01	62822.02	62826.01	62828.01	62829.01	62830.01	62830.02
	62830.03	62831.01	62831.02	62832.01				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	REL.	CONT.	METH.	CORR.	QC LIMITS	
Matrix	RESULTS	ADDED	RESULTS	%	DUP. %	DIFF.	CALIB.	BLANK	COEFF.	RECOV.	DIFF.
MERCURY	0.00	0.002	0.002	100	100	0	100	0	1	60 - 120	20

John Keller
JOHN KELLER, Ph.D
Laboratory Director



ENVIRON EXPRESS LABORATORIES, INC.
401 North 11th. St. / La Porte, Texas 77571-3115
(281) 471-0951 / (800) 880-0156
Fax: (281) 471-5821 / After Hours: (281) 844-2308

Results To: <u>Dr. Bowman</u>	Invoice To:	TAT (WORKING DAYS) CIRCLE ONE 1 2 3 5	
Company:	Company: <u>CEB ENVIRONMENTAL SVC.</u>	LAB LOT #	COC Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Address:	Address: <u>9904 GRILLAS RD.</u>	Shipment Sealed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Sealed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
City: State: Zip:	City: <u>Houston</u> State: <u>TX</u> Zip: <u>77021</u>	Received on Ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Phone:	Phone: <u>(713) 676-1460</u>	Cooler Temp. (°C) <u>17</u>	Preservative Shown? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
Fax:	Fax: <u>(713) 676-1676</u>	Hold Time OK? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Res. Cl2 Check OK? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
e-Mail:	PO#:	Quote#:	pH Check OK? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA

Project Name: <u>GSF Energy</u>
Project Location: <u>Houston TX</u>
Project No:
Sampler (Print): <u>Don Bowman</u>
Sampler (Sign): <u>Don Bowman</u>

Sampler Remarks:

² Cntr. Type <u>G</u>	² Number <u>2</u>	² Volume <u>32oz</u>	² Preservative <u>1</u>	¹ MATRIX	COMP/GRAB	BTEX (8021)	TPH (TX1005)	MTBE	PAH	VOLATILES	SEMI-VOLS	RCRA METALS	TCLP METALS	TCLP BENZENE	PC1
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Remarks & Additional Analyses	
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EEL/USE ONLY (LAB NO.)	SAMPLE ID.	DATE/TIME SAMPLED	¹ MATRIX	COMP/GRAB	BTEX (8021)	TPH (TX1005)	MTBE	PAH	VOLATILES	SEMI-VOLS	RCRA METALS	TCLP METALS	TCLP BENZENE	PC1
6253/01	¹ Soil & Oil 0108-48		SO	G								X	X	X
1-02	² Sulfur Treat 0108-49		SO	G								X	X	
	³													
	⁴													
	⁵													
	⁶													
	⁷													
	⁸													
	⁹													
	¹⁰													

Relinquished By: <u>[Signature]</u>	Company: <u>CEB</u>	Date/Time: <u>1/22/04 4:30</u>	Received By: <u>[Signature]</u>	Company: <u>ENVIRON</u>
Relinquished By:	Company:	Date/Time:	Received By:	Company:
Relinquished By:	Company:	Date/Time:	Received By:	Company:

¹ Matrix Key S: Soil W: Water WW: Waste Water SL: Sludge SO: Solid SE: Sediment L: Leachate WL: Wipe OR: Organic OL: Oil DS: Drum Solid DL: Drum Liquid O: Other	
² Container Type Key P: Plastic G: Glass V: VOA Glass O: Other	³ Preservative Key 1: Ice (<4°C) 2: HCL 3: H2SO4 4: HNO3 5: NaOH 6: NaOH+Zn Acetate 7: Na2S2O3 8: None

Delivery of samples constitutes acceptance of Environ's terms and conditions in the Price Schedule.

Evalca 2616
2616



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/15/2008

Dear Ron Toombs

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2616

Expiration Date 2/15/2010

Generator: Evalca Company of America
Address: 11500 Bay Area Boulevard
Pasadena, TX 77507

Waste Information

Name of Waste: Methanol

TCEQ Waste Code #: 0006605H

Container Type:

Detailed Description of Process Generating Waste:

Methanol and water and line flush with Ethylene vinyl alcohol copolymer (EVOH) from plastics processing

Color: clear colorless mobile l **Odor:** mild alcohol odor **pH:** 3-12

Physical State:

Incompatibilities: see MSDS

Safety Related Data/Special Handling:

wear heat protective gloves and clothing if there is a potential of contact with heated materials. Wear safety glasses

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO108002293

GRP
OK
See Sec 4 & 8.



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
<http://www.cesenvironmental.com>

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Evalca Company of America
Address: 11500 Bay Area Blvd
City, State, Zip: Pasadena, TX 77507
Contact: Ron Toombs Title: Production Supervisor
Phone No: (281) 474-1512 Fax No: (281) 474-1555
24/hr Phone: (281) 434-9896
U.S. EPA I.D. No: TXD981148059
State I.D. 32728 SIC Code: NA

SECTION 2: Billing Information - ☒ Same as Above

Company: _____
Address: _____
City, State, Zip: _____
Contact: _____ Title: _____
Phone No: _____ Fax No: _____

SECTION 3: General Description of the Waste

Name of Waste: Methanol

Detailed Description of Process Generating Waste: Methanol and water and line flush with evoh from plastics processing

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: Clear, Colorless Mobile Odor: Mild Alcohol odor

Specific Gravity (water=1): .792 Density: 6.63 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: _____ 5500 g _____

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly

Number of Units (containers): 1 Other: _____

Texas State Waste Code No: 0006605H (for Recycle) D001, U154

Proper U.S. DOT Shipping Name: RQ, UN 1230, Methanol, 3, PG II

Class: 3 UN/NA: UN1230 PG: II RQ: 5000 lbs

54 F	DEA 3-12	Reactive Solvents 0mg/l	Reactive Cyanides 0mg/l	110 20000 Solids <5%
Oil & Grease 0mg/l	TOC 0mg/l	Zinc 0mg/l	Copper 0mg/l	Nickel 0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The waste consists of the following materials		Ranges are acceptable	or %
Methanol		50-80	%
Water		8-30 40 18-40	%
EVOH		2-10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Wear heat protective gloves and clothing if there is a potential of contact with heated materials. Wear safety glasses as well.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

Methanol MSDS and EVOH MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

none see MSDS

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ☒
TCLP Volatiles: ☒
TCLP Semi-Volatiles: ☒
Reactivity: ☒
Corrosivity: ☒
Ignitability: ☒

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Ron Toombs

Date: 2/14/08

Printed Name/Title: RON Toombs / Day Supervisor

CES (USE ONLY (DO NOT WRITE IN THIS SPACE))	
Compliance Officer: <u>Robert Thompson</u>	
Date: <u>2-15-08</u>	Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>
Approval Number: <u>2616</u>	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

.40/ gallon, \$395 per load, 20% FSC \$175 per washout.

2. Contamination Limits (maximum limit before surcharges apply):

4% solids

3. Surcharge Pricing:

.01/gal over 4% Solids

4. Special Testing Requirements:

~~Before~~ Prior to recycle processing have a lab distillation run to establish the distillation recovery percentages and operating parameters.

5. Treatment and Handling Protocol:

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C

7. Tests for Product Recovered/Recycled (if applicable):

8. Management for Product Recovered/Recycled (if applicable):

See # 4.

Product name: Methanol
MSDS number: 56
Material number: 40500001
Published date: 07/23/2002

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product: Methanol
MSDS number: 56
Material number: 40500001

Synonyms: Methyl alcohol; Carbinol; Monohydroxymethane; Methyl hydroxide.

Celanese Ltd.
1601 W. LBJ Freeway
P.O. Box 819005
Dallas, TX 75381-9005
United States
972 443 4000

Celanese Canada, Inc.
P.O. Box 99 Station Main
Edmonton, Alberta,
Canada T5J 2H7
780 471 0425

Transportation emergency phone numbers:

In USA, call 800 424 9300
Outside USA, call 703 527 3887, collect calls accepted
In Canada, call 780 477 8339.

Product Use: Intermediate for Methyl t-butyl ether (MTBE), Formaldehyde, Acetic acid, acetate ester solvents, chloromethanes, Methyl methacrylate, antifreeze applications (including windshield washer fluid), Dimethyl terephthalate, methylamines; miscellaneous, including intermediate for methyl glycol ethers and fuel uses.

2. Composition / Information on Ingredients

Component & CAS Number	Weight %	OSHA hazard category:
METHANOL 67-56-1	99.5 - 99.85	Hazardous

Transportation emergency:

800 424 9300

CHEMTREC, 24 hrs/day

Product emergency:

703 527 3887
800 835 5235

Outside USA, collect calls accepted, 24 hrs/day
Celanese, 24 hrs/day

Product name:	Methanol
MSDS number:	56
Material number:	40500001
Published date:	07/23/2002

Ingestion: May be fatal if swallowed. Symptoms of exposure may include: A small amount of Methanol (usually two or more ounces) can cause mental sluggishness, nausea and vomiting leading to severe illness, and may produce adverse effects on vision with possible blindness or death if treatment is not received.

Reproductive: May cause adverse reproductive effects based on animal data.

Carcinogenic: No evidence of carcinogenicity.

Mutagenic: Does not show mutagenic potential in most in vitro tests.

Teratogenic: May cause birth defects based on animal data.

Target Organ Effects:

- Overexposure (prolonged or repeated exposure) may cause:
Central nervous system depression
Injury to the eyes
Drying of the skin
Local irritation at the site of exposure

Medical Conditions which may be Aggravated by Exposure:

Significant exposure to this chemical may adversely affect people with acute or chronic disease of the:

- Skin
- Eyes
- Central nervous system
- Digestive tract

For further information, see:

Section 4 - First Aid Measures
Section 5 - Fire Fighting Measures
Section 6 - Accidental Release Measures
Section 8 - Exposure Controls/Personal Protection
Section 9 - Physical and Chemical Properties
Section 10 - Stability and Reactivity

4. First Aid Measures

Skin:

Transportation emergency:	800 424 9300	CHEMTREC, 24 hrs/day
	703 527 3887	Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Product name:	Methanol
MSDS number:	56
Material number:	40500001
Published date:	07/23/2002

of combustion exists, wear full fire fighting turnout gear and NIOSH approved self-contained breathing apparatus. Oxidizing chemicals may accelerate the burning rate in a fire situation. Vapor is heavier than air and can travel considerable distance to a source of ignition and flashback.

6. Accidental Release Measures

Spill or Leak Instructions

Eliminate ignition sources. See Section 8 for appropriate personal protective equipment. Contain spill with dikes of soil or nonflammable absorbent to minimize contaminated area. Water fog stream may reduce vapors. If fire potential exists, blanket spill with alcohol type aqueous film-forming foam or use water fog stream to disperse vapors. Avoid run-off into storm sewers and ditches leading to waterways. If required, notify state and local authorities. Place leaking containers in well-ventilated area. Clean up small spills by using a nonflammable absorbent or flushing sparingly with water. Contain larger spills with nonflammable diking or absorbent. Clean up by vacuuming or sweeping.

Within the United States, call the National Response Center (800-424-8802) and appropriate state and local authorities if the quantity released over 24 hours is equal to or greater than the reportable quantity listed below:

1,000 lbs. of the material as is, based on a Reportable Quantity of 5,000 lbs. for methanol.

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Isolate for 800 meters or 0.5 miles in all directions if tank, rail car, or tank truck is involved in fire. Evacuate downwind areas as conditions warrant to prevent exposure and to allow vapors or fumes to dissipate. Spills may expose downwind areas to toxic or flammable concentrations over considerable distances in some cases.

7. Handling and Storage

Handling:

Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

This product may generate a static charge. Ground/bond equipment when transferring material to prevent static accumulation. Electrical equipment and circuits in all storage and handling must conform to requirements of National Electric Code (Article 500 and 501) for hazardous location.

Storage:

Keep all containers tightly closed when not in use. Store out of direct sunlight and on an impermeable floor.

Do not store with incompatible materials. See Section 10. Stability and Reactivity.

Transportation emergency:

800 424 9300

CHEMTREC, 24 hrs/day

703 527 3887

Outside USA, collect calls accepted, 24 hrs/day

Product emergency:

800 835 5235

Celanese, 24 hrs/day

Product name:	Methanol
MSDS number:	56
Material number:	40500001
Published date:	07/23/2002

Component & CAS Number	Weight %	ACGIH TWA	ACGIH STEL	ACGIH CEILING	OSHA TWA	OSHA STEL	OSHA CEILING
METHANOL 67-56-1	99.5 - 99.85	200 PPM	250 PPM	-	200 PPM	-	-

Component & CAS Number	Weight %	1990 NIOSH IDLH (Recognized by OSHA)	1994 NIOSH IDLH
METHANOL 67-56-1	99.5 - 99.85	25,000 PPM	6000 PPM

9. Physical and Chemical Properties

Appearance:	Clear, colorless mobile liquid.
Odor:	Mild alcohol odor.
Vapor Pressure:	127 mm Hg @ 25 deg C
Vapor Density (Air=1 @ 20 C):	1.11
Boiling Point (760 mmHgA):	64.7 C (148.5 F)
Freezing Point:	- 97.8 C (- 144 F)
Specific Gravity:	0.792 at 20 deg C
Molecular Weight:	32.04

10. Stability and Reactivity

Stability:	Stable.
Conditions to Avoid:	Avoid heat , flames, sparks, and other sources of ignition.
Incompatibility:	Keep away from sulfuric and other strong inorganic acids, aluminum or lead (including equipment made of these metals), and oxidizing agents such as peroxides, nitric acid, perchloric acid or chromium trioxide.
Hazardous combustion or decomposition products:	Thermal decomposition products may include oxides of carbon.

Transportation emergency:

800 424 9300

CHEMTREC, 24 hrs/day

703 527 3887

Outside USA, collect calls accepted, 24 hrs/day

Product emergency:

800 835 5235

Celanese, 24 hrs/day

Product name:	Methanol
MSDS number:	56
Material number:	40500001
Published date:	07/23/2002

METHANOL 67-56-1	99.5 - 99.85	<p>Acute Exposure: Toxicity information on the solution is generally not available. Information on the solution components is listed next.</p> <p>Oral LD50: 6.2-12.9g/kg (rats); practically nontoxic to animals. However, based on human exposure reports, a small amount (usually two or more ounces) can cause mental sluggishness, nausea and vomiting leading to severe illness, and may produce adverse effects on vision with possible blindness or death if treatment is not received.</p> <p>Inhalation LC50: 64000ppm (rats,4 hrs.); practically nontoxic to animals. Based on human exposure reports, levels substantially above the TLV cause stupor, headache, nausea, dizziness, unconsciousness and may produce adverse effects on vision.</p> <p>Skin: Irritating to rabbit skin. Severity depends on the quantity administered and exposure period and is related to the defatting properties of methanol; slightly toxic to animals (minimum lethal dose, monkeys: 1.6g/kg; LD50, rabbits:16g/kg). Based on human exposure reports, prolonged and repeated skin contact with methanol-soaked material has produced toxic effects including vision effects and death.</p> <p>Eye: Severely irritating to rabbit eyes.</p> <p>Mutagenicity: Methanol - Not genotoxic in most in vitro assays. Not genotoxic in vivo in mice exposed via inhalation up to 4000ppm (6hrs./day for 5 days) and subsequently examined for cytogenetic effects.</p> <p>Carcinogenicity: Methanol - Inhalation-Not carcinogenic in lifetime inhalation studies (reported in limited detail) in rats and mice at concentrations of 10-1000ppm. Dermal-Not carcinogenic in mice exposed dermally to 0.02ml/day, 2 days/week over a lifetime in a study of limited quality.</p> <p>Reproductive/Developmental Effects: Methanol - In an inhalation developmental toxicity study, rats were exposed 6hrs./day to 5000, 10000 or 20000ppm vapors. A significant teratogenic response was seen at 20000ppm. Fetotoxicity was noted at 10000ppm, but not at 5000ppm. In an inhalation developmental toxicity study, mice were exposed 7hrs./day to 2000, 5000 or 10000ppm vapors. Methanol caused developmental toxicity at all levels. Oral administration of methanol via gavage at 1.3, 2.6 or 5.2 ml/kg to rats resulted in developmental toxicity at all levels.</p> <p>Repeated Exposure: Methanol - Inhalation exposure (6hrs./day; 5days/week) of monkeys to vapor concentrations of 500, 2000 or 5000ppm for 4 weeks did not result in any treatment-related effects. Monkeys exposed to methanol vapors of 10, 100 or 1000ppm for 22hrs./day for up to 2.5yrs. showed changes in the liver, kidney and nervous system at 1000ppm (limited details reported). Rats exposed by oral gavage to 100,</p>
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Transportation emergency:

800 424 9300

CHEMTREC, 24 hrs/day

Product emergency:

703 527 3887

Outside USA, collect calls accepted, 24 hrs/day

800 835 5235

Celanese, 24 hrs/day

Product name:	Methanol
MSDS number:	56
Material number:	40500001
Published date:	07/23/2002

Dispose of spilled material in accordance with state and local regulations for hazardous waste. Recommended methods are incineration or biological treatment at a federally or state-permitted disposal facility. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste. See Section 9 - Physical and Chemical Properties.

EPA Hazardous Waste Code(s): U154

14. Transport Information

US Department of Transportation

Shipping name:	METHANOL
Hazard class:	3 (Flammable Liquid)
UN/NA Number:	UN1230
Packing Group:	II
DOT Reportable Quantity (RQ):	5000 lbs/2270 kg (Methanol)
Emergency Response Guide:	131

ICAO/IATA:

Proper Shipping Name:	METHANOL
Hazard Classification:	3 (Flammable Liquid)
IATA UN Number:	UN1230
Packing group:	II
Label:	(Flammable Liquid) (Toxic)

IMDG:

Proper Shipping Name:	METHANOL
Hazard Class:	3 (Flammable Liquid)
International Marine UN Number:	UN1230

Transportation emergency:	800 424 9300	CHEMTREC, 24 hrs/day
	703 527 3887	Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Product name:	Methanol
MSDS number:	56
Material number:	40500001
Published date:	07/23/2002

SARA 311:

Acute health:	Yes
Chronic health:	Yes
Fire:	Yes
Sudden release of pressure:	No
Reactive:	No

INTERNATIONAL REGULATIONS**International chemical inventories:**

Listed on the chemical inventories of the following countries or qualifies for an exemption:
AUSTRALIA, CHINA, CANADA, EUROPE, KOREA, PHILIPPINES, JAPAN

Canadian Regulations:

WHMIS Classification: Class B, Division 2. Class D, Division 2, Subdivision A; Division 2, Subdivision B.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

16. Other Information

Prepared by: Product Stewardship Department
Celanese Ltd.

Hazard ratings This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.

NFPA: Health: 1 Flammability: 3 Reactivity: 0

HMIS: Health: 2 Flammability: 3 Reactivity: 0

Revisions: The following sections have been revised since the last issue of this MSDS.

8. Exposure Controls / Personal Protection

Transportation emergency:

800 424 9300

CHEMTREC, 24 hrs/day

703 527 3887

Outside USA, collect calls accepted, 24 hrs/day

Product emergency:

800 835 5235

Celanese, 24 hrs/day

R&D/Opera
Paste

MATERIAL SAFETY DATA SHEET



EVAL COMPANY OF AMERICA
1001 WARRENVILLE ROAD (SUITE 201)
LISLE, IL 60532-1301
630-719-4610 (9am - 5pm CST)
281-474-1524 (After 5pm)

EMERGENCY TELEPHONE
800-424-9300 (Chemtrec)

NUMBER: EVAL 01
ISSUE DATE: May 4, 2001
SUPERSEDES: April 27, 2001

Page: 1

SECTION I - IDENTIFICATION

PRODUCT NAMES:

C109A	C109B	E105A	E105B
E151A	E151B	ES104B	ETC-133
F100A	F100B	F101A	F101B
F104A	F104B	G110A	G156A
G156B	H101A	H101B	HU101B
H171B	J102B	K102A	L101A
L101B			

CHEMICAL PRODUCT: Polymer compound
CHEMICAL NAME: Ethylene-vinyl acetate-vinyl alcohol copolymer
CHEMICAL FORMULA: $(CH_2-CH_2)_m-(CH_2-CH)_n-OH$
CAS RN: 26221-27-2
SYNONYMS: Ethylene vinyl alcohol copolymer, EVOH

This product is not hazardous as defined by the U. S. Occupational Safety and Health Administration (OSHA) under its Hazard Communication Standard (HCS), 29 C.F.R.s 1910.1200.

This product is not hazardous as defined by the Canadian Labour Code under the Hazardous Products Act (HPA) and therefore is not subject to hazards reporting or labeling through the Workplace Hazardous Materials Information System (WHMIS).

SECTION II - INGREDIENTS

COMPOSITION	CAS NO.	NOMINAL %	PEL/TLV	HAZARD
Ethylene-vinyl acetate-vinyl alcohol copolymer	26221-27-2	>99	None	None Noted

SECTION III - HEALTH HAZARD INFORMATION

INHALATION: Fumes may be generated in operations using heated polymer.

INGESTION: Not known.

MATERIAL SAFETY DATA SHEET



EVAL COMPANY OF AMERICA
1001 WARRENVILLE ROAD (SUITE 201)
LISLE, IL 60532-1301
630-719-4611 (9am - 5pm CST)
281-474-1524 (After 5pm)

EMERGENCY TELEPHONE
800-424-9300 (Chemtrec)

NUMBER: EVAL 01
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EYE CONTACT: Powder or finely ground dust could cause eye irritation.

SKIN CONTACT: Molten or heated material can cause serious burns to unprotected skin.

SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

Listed as a carcinogen by: [no] NTP [no] IARC [no] OSHA: If any ingredient is listed by one of the three agencies as a carcinogen a "y" or "yes" is placed in the brackets; otherwise "n" or "no" is used.

PEL (OSHA Permissible Exposure Limit): No OSHA PEL for this compound.
For nuisance dust: 15 mg/m³ (respirable) - 8 hour TWA.

TLV (ACGIH Threshold Limit Value): No ACGIH TLV for this compound For
nuisance dust: 10 mg/m³ - 8 hour TWA.

SECTION V - EMERGENCY FIRST AID PROCEDURES

FOR OVER EXPOSURE BY:

SWALLOWING: Call a physician or the Poison Control Center immediately.

SKIN CONTACT: Wash affected area with plenty of water.

INHALATION: If overcome by finely ground or heated fumes, immediately remove victim to fresh air. If victim has stopped breathing, give artificial respiration, preferably mouth to mouth. Get medical attention immediately.

EYE CONTACT: If finely ground dust gets in the eyes, immediately flush eyes with plenty of cool water to remove particles from eyes.

MATERIAL SAFETY DATA SHEET



EVAL COMPANY OF AMERICA
1001 WARRENVILLE ROAD (SUITE 201)
LISLE, IL 60532-1301
630-719-4612 (9am - 5pm CST)
281-474-1524 (After 5pm)

EMERGENCY TELEPHONE
800-424-9300 (Chemtrec)

NUMBER: EVAL 01
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SECTION VI - PHYSICAL DATA

RESIN DENSITY: 1.14 - 1.20 g/cc
BULK DENSITY: 34 - 50 lbs./ft³
SUPER HEAT: 0.57 cal/g/°C
MELTING POINT: 157 - 191 °C
VAPOR PRESSURE: Not applicable
HEAT OF COMBUSTION: 7,000 - 7900 cal/g
VAPOR DENSITY (AIR=1): Not applicable
SOLUBILITY IN WATER: Essentially none
APPEARANCE AND COLOR: White to straw colored and colorless chip and pellet, odorless.

SECTION VII - FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD USED: 550°F (288°C) Cleveland Open Cup
AUTO IGNITION TEMPERATURE: Not applicable
FLAMMABLE LIMITS IN AIR, % BY VOLUME LOWER: Not applicable
UPPER: Not applicable
NFPA RATING: HEALTH () FIRE () REACTIVITY ()
No NFPA rating (Does not apply to exposure hazards other than a fire)

UNUSUAL FIRE AND EXPLOSION HAZARDS: Firefighters should wear self-contained breathing apparatus in the positive pressure mode with a full faceplate when there is a possibility of exposure to smoke, fumes or hazardous decomposition products. The application of high velocity water will spread the burning surface layer. Finely ground EVAL® powder particles in the atmosphere are combustible and may be explosive. EVAL® resins may generate static electrical charges when conveyed or poured in an extremely dry environment.

SECTION VIII - REACTIVITY

STABILITY: Generally stable

HAZARDOUS POLYMERIZATION: Not likely

MATERIAL SAFETY DATA SHEET



EVAL COMPANY OF AMERICA
1001 WARRENVILLE ROAD (SUITE 201)
LISLE, IL 60532-1301
630-719-4613 (9am – 5pm CST)
281-474-1524 (After 5pm)

EMERGENCY TELEPHONE
800-424-9300 (Chemtrec)

NUMBER: EVAL 01
ISSUE DATE: May 4, 2001
SUPERSEDES: April 27, 2001

Page: 4

CONDITIONS AND MATERIALS TO AVOID: Extreme heat above 460°F (238°C)

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may include Acetaldehyde, Crotonaldehyde, Acetone, Acetic Acid, Carbon Monoxide, Carbon Dioxide, Hydrocarbons, and other organic vapors.

SECTION IX - EMPLOYEE PROTECTION

CONTROL MEASURES: Provide adequate local exhaust ventilation to maintain air concentration of dust, fumes and vapors below acceptable exposure criteria (Sections II & IV). Provide adequate mechanical ventilation at the points of extrusion where polymer is at elevated temperatures coming from the extruder.

RESPIRATORY PROTECTION: Where exposure is likely to exceed acceptable criteria (Sections II & IV), use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminant in air in accordance with OSHA 29 CFRs 1910.134.

PROTECTIVE CLOTHING: Wear heat protective gloves and clothing if there is a potential contact with heated materials.

EYE PROTECTION: Wear safety glasses meeting the specifications of ANSI standard Z87.1 where no contact with eye is anticipated. Chemical safety goggles meeting ANSI standard Z87.1 should be worn if there is a possibility of eye contact.

SECTION X - ENVIRONMENTAL PROTECTION

ENVIRONMENTAL PRECAUTIONS: Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill release response plan should be developed and implemented. If materials enters a water course or sewer, advise proper authorities of possible non-floating polymer.

SPILL OR LEAK PROCEDURES: Normal procedures for clean-up. Use good housekeeping practices. Wear appropriate respiratory protection and protective clothing as described in Section IX. Contain spilled material. Transfer to secure containers. In the event of an uncontrolled release of this material, the user should determine if the release of this material is reportable under applicable laws and regulations.

WASTE DISPOSAL: All recovered material should be disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible.

MATERIAL SAFETY DATA SHEET



EVAL COMPANY OF AMERICA
1001 WARRENVILLE ROAD (SUITE 201)
LISLE, IL 60532-1301

630-719-4614 (9am – 5pm CST)
281-474-1524 (After 5pm)

EMERGENCY TELEPHONE
800-424-9300 (Chemtrec)

NUMBER: EVAL 01
ISSUE DATE: May 4, 2001
SUPERSEDES: April 27, 2001

Page: 5

SECTION XI - REGULATORY CONTROLS

DEPARTMENT OF TRANSPORTATION:

DOT CLASSIFICATION: Non-Regulated Commodity

DOT PROPER SHIPPING NAME: Not applicable

OTHER DOT INFORMATION: Not applicable

OTHER REGULATORY REQUIREMENTS:

Toxic Substance Control Act (TSCA)

This product is listed in the TSCA Inventory of Chemical Substances as Ethylene-vinyl acetate-vinyl alcohol copolymer.

The CAS RN Number is 26221-27-2.

Superfund Amendments and Reauthorization Act (SARA)

This material is not considered hazardous pursuant to Title III of SARA and is not considered subject to the annual reporting requirements specified by Section 312 and 313 of Title III of SARA and 40 CFR Part 372.

Coalition of Northeastern Governors (CONEG)

This product conforms to the CONEG regulations, indicating that the total weight of the heavy metals; lead, mercury, cadmium and hexavalent chromium in combined amounts is less than 100 ppm (by weight).

Ozone Depleting Chemicals (ODC)

Neither Freon nor other ozone depleting chemicals (ODC's) are used in manufacturing our EVAL® materials. Therefore, a warning label is not necessary to be on those products made of our EVAL® materials, as proposed by EPA under Federal Register (57 FR 19166) dated May 4, 1992.

The Safe Drinking Water and Toxic Enforcement Act of 1986 (California PROP 65)

This product does not contain, at any level, the substances on the Hazardous Chemical List under the California Safe Drinking Water and Toxic Enforcement Act of 1986(Prop 65).

MATERIAL SAFETY DATA SHEET



EVAL COMPANY OF AMERICA
1001 WARRENVILLE ROAD (SUITE 201)
LISLE, IL 60532-1301
630-719-4615 (9am – 5pm CST)
281-474-1524 (After 5pm)

EMERGENCY TELEPHONE
800-424-9300 (Chemtrec)

NUMBER: EVAL 01
ISSUE DATE: May 4, 2001
SUPERSEDES: April 27, 2001

Page: 6

CANADIAN DOMESTIC SUBSTANCES LIST (DSL)

Is listed in the Canadian Domestic Substances List by CAS RN number 26221-27-2 as Ethylene-vinyl-acetate-vinyl-alcohol copolymer.

SECTION XII - PRECAUTIONS: HANDLING, STORAGE AND USAGE

When handling finely ground EVAL® powder, ground transfer, blending and dust collecting equipment to prevent static sparks. Remove all ignition sources from material handling, transfer and processing areas where dust may be present. Mechanical and local exhaust should be provided in work areas. Do not use near open flame or areas where smoking is permitted. EVAL® pellets spilled on walking surfaces constitute a slipping hazard. Work areas should be kept clean and free of pellets.

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which EVAL Company of America bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

PREPARED BY EVAL COMPANY OF AMERICA

2617

Kinder Morgan

2617



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Material / Product Approval Letter

Date 2/15/2008

Dear Michael Jaskowiak

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2617

Expiration Date 2/15/2010

Producer: Kinder Morgan - Pasadena Facility
Address: 530 Witter St
Houston, TX 77506

Material / Product Information

Name of Material / Product Ethanol product

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Chemical manufacturing and manufacturing facility

Color: brown

Odor: hydrocarbon

pH: 3-11

Physical State:

Incompatibilities: oxidizers, heat, flame, ignition sources

Safety Related Data/Special Handling:

std PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO108002314

**CES Environmental
Services, Inc.**

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

*GRP specific gr: #1's/Lgal
Sec. 7, 4*

*Multi phase - ? - chem
comp = Ethanol + H₂O?*

SECTION 1: Material Producer Information

Company : Kinder Morgan
Address : 530 Witter St.
City, State, Zip : Pasadena, TX 77506
Contact : Lance Wiley Title :
Phone No : 713-724-4912 Fax :
24 / HR Phone :
U.S EPA I.D No : N/A
State I.D : N/A SIC Code N/A

SECTION 2: Billing Information

Company : Same
Address :
City, State, Zip :
Contact : Title :
Phone No : Fax :

SECTION 3: General Description of the Material / Product

Name of Material / Product : Ethanol product

Detailed Description of the Process Generating or Producing the Material / Product:

Chemical manufacturing and manufacturing facility

Physical State : ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color : brown Odor : hydrocarbon
Specific Gravity (Water=1) : 7.8-8 Density : 8.34 6-7 lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No
Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers : ☒ Single-Phase ☒ Multi-Phase

Container Type : ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Container Size : 5000 3000

Number Of Units : 1

Proper U.S. DOT Shipping Name : Flammable Liquids, n.o.s., UN 1993, PG II (Ethanol)

Class : 3 UN/NA : UN1993 PG : II RQ : na

<u>>115 69</u>	3-11	na mg/l	na mg/l	0 %
Oil and Grease na mg/l	TOC na mg/l	Zinc na mg/l	Copper na mg/l	Nickel na mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Ethanol	93-95%	%
Water	5% to 7%	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.

none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

none Oxidizers, heat, flame, sources of ignition.

SECTION 8: Material Producer's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature :

n/a

Date :

Printed Name / Title : not required /

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer :

Robert Thang

Date :

2-15-08

Status :

Approved

Rejected

Approval Number :

2617

Process Facility Information :

TOC is expected to be high. If material is mostly ethanol, handle as CES Fuel

#0.65 gal (450g/min)

#69/hr + FSC

1. Base Pricing (including freight):

\$0.65/gal ; \$500/min ; Trans \$69/hr + FSC

2. Contamination Limits (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

TOC is expected to be high. If material is mostly ethanol
handle as CES-fuel; run density and pH.

5. Treatment and Handling Protocol:

See #4

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C

7. Tests for Product Recovered/Recycled (if applicable):

See # 4

8. Management for Product Recovered/Recycled (if applicable):

See # 4

Champion Ford 2618
2618



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/15/2008

Dear Steve Sams

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2618

Expiration Date 2/15/2010

Generator: Champion Ford Gulf Freeway

Address: 12227 Gulf Freeway
Houston, TX 77034

Waste Information

Name of Waste: Oily water

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Unused oil spilled on the parking lot and water from pressure wash of the area

Color: brown/black **Odor:** none **pH:** 6-8

Physical State:

Incompatibilities: n/a

Safety Related Data/Special Handling:

std ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676

<http://www.cesenvironmental.com>

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Champion Ford Gulf Freeway
Address: 12227 Gulf Freeway
City, State, Zip: Houston, Texas 77034
Contact: Steve Sams Title: Auth. Broker For Generator
Phone No: 800-215-9868 Fax No: n/a
24/hr Phone: 281-838-3400
U.S. EPA I.D. No: n/a
State I.D. n/a SIC Code: n/a

SECTION 2: Billing Information - ☐ Same as Above

Company: Phoenix Pollution Control & Environmental Services, Inc.
Address: 720 S. Lynchburg Road
City, State, Zip: Baytown, Texas
Contact: Steve Sams Title: _____
Phone No: 281-838-3400 Fax No: 281-424-7748

SECTION 3: General Description of the Waste

Name of Waste: Oil/Wastewater

Detailed Description of Process Generating Waste: Unused Oil Spilled on the parking lot & water from Pressure wash of the area.

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: brown/black

Odor: none

*total phenolic compounds ☒ No
Para Substituted Phenolic ☒ No
Compounds*

Specific Gravity (water=1): 1 Density: 8.34 lbs/gal

Layers: ☒ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: _____ 70 bbl. _____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly

Number of Units (containers): 1500 gallons Other: _____

Texas State Waste Code No: _____ Recycle

Proper U.S. DOT Shipping Name: Recyclable hydrocarbon and water mixture (oily water)

Class: n/a UN/NA: n/a PG: n/a RQ: n/a

Flash Point <u>>200</u>	pH <u>6-8</u>	Reactive Sulfides <u>n/amg/l</u>	Reactive Cyanides <u>n/amg/l</u>	Solids <u>n/a%</u>
Oil & Grease <u>n/amg/l</u>	TOC <u>n/amg/l</u>	Zinc <u>n/amg/l</u>	Copper <u>n/amg/l</u>	Nickel <u>n/amg/l</u>

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The waste consists of the following materials		Ranges are acceptable	or %
Water		90-95 <u>100</u>	%
Oil		0-5	%
Dirt		0-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard ppe

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

n/a

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

n/a

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals: ☒
 TCLP Volatiles: ☒
 TCLP Semi-Volatiles: ☒
 Reactivity: ☒
 Corrosivity: ☒
 Ignitability: ☒

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: 02/15/08

Printed Name/Title: Steve Sams/Auth. Broker For Generator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [Signature]

Additional Information: _____

Date: 2-15-08

☒ Approved

☐ Rejected

Approval Number: 2618

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☒ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

\$ 0.10 /gal
TOC < 5000
Solids < 10%

2. Contamination Limits (maximum limit before surcharges apply):

greater than above

3. Surcharge Pricing:

Rate table

4. Special Testing Requirements:

run pH, TOC and total phenolics on the water phase.

5. Treatment and Handling Protocol:

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable):

--

2619

Rhomax
2619



**CES Environmental
Services, Inc.**

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Material / Product Approval Letter

Date **2/21/2008**

Dear **David Willis**

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2619

Expiration Date 2/21/2010

Producer: Rhomax USA Inc - Houston
Address: 1700 Tidal Road
Deer Park, TX 77536

Material / Product Information

Name of Material / Product Base oil flush

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused base oil material (Product)

Color: Amber

Odor: Hydrocarbon

pH: 3-11

Physical State:

Incompatibilities: Strong oxidizers

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO108002328



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
<http://www.cesenvironmental.com>
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Material Producer Information

Company : Rhomax USA Inc - Houston
Address : 1700 Tidal Road 1700 Tidal Road
City, State, Zip : Deer Park TX 77536
Contact : David Willis Title :
Phone No : (281) 228-8156 Fax :
24 / HR Phone :
U.S EPA I.D No : na
State I.D : na SIC Code na

SECTION 2: Billing Information

Company : Rhomax USA Inc - Houston
Address : 1700 Tidal Road 1700 Tidal Road
City, State, Zip : Deer Park TX 77536
Contact : David Willis Title :
Phone No : (281) 228-8156 Fax :

SECTION 3: General Description of the Material / Product

Name of Material / Product : Base oil flush

Detailed Description of the Process Generating or Producing the Material / Product:

Unused base oil material (Product)

Physical State : ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color : Amber Odor : Hydrocarbon

Specific Gravity (Water=1) : 0.86 Density : 7.17 lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers : ☒ Single-Phase ☐ Multi-Phase

Container Type : ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Container Size : 5000

Number Of Units : 1

Proper U.S. DOT Shipping Name : Non-RCRA/Non-DOT Regulated Material

Class : na UN/NA : na PG : na RQ : na

Flash Point >340	pH 3-11	Reactive Sulfides na mg/l	Reactive Cyanides na mg/l	Solids na %
Oil and Grease 100% mg/l	TOC na mg/l	Zinc na mg/l	Copper na mg/l	Nickel na mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
100 SUS Neutral (oil)	100	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.
MSDS for 100 SUS Neutral (same as CES Profile 1790)

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Strong oxidizers

SECTION 8: Material Producer's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : N/A Date : 2/21/2008

Printed Name / Title : Matt Bowman / Agent for Producer

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Process Facility Information :

Compliance Officer : Prabhakar Thangudu

Date : 2/21/2008 Status : Approved Rejected

Approval Number : 2619

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

CES will pay 1701 gallon for oil

2. Contamination Limits (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

Test color, ash, water content
Specific gravity

5. Treatment and Handling Protocol:

Handle as base oil; Contact MATT if this
material is not base oil.

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

BASE OIL

8. **Management for Product Recovered/Recycled (if applicable):**

BASE OIL

Mobil**Material Safety Data Bulletin**

PAGE 1 OF 7

100 SUS NEUTRAL**1. PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: 100 SUS NEUTRAL (STOCK: 143.0)
SUPPLIER: MOBIL OIL CORP.
NORTH AMERICA MARKETING AND REFINING
3225 GALLOWAY RD.
FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 800-737-4411
Product and MSDS Information: 800-662-4525 609-224-4644
CHEMTREC: 800-424-9300 202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PETROLEUM HYDROCARBONS

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

See Section 16 for European Label Information.

See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.

EFFECTS OF OVEREXPOSURE: No significant effects expected.

EMERGENCY RESPONSE DATA: Light Amber Liquid. DOT ERG No. - NA

Mobil**Material Safety Data Bulletin**

078471999

100 SUS NEUTRAL

PAGE 2 OF 7

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

INHALATION: Not expected to be a problem.

INGESTION: Not expected to be a problem when ingested. If uncomfortable seek medical assistance.

NOTE TO PHYSICIANS: Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): > 171(340) (ASTM D-93). Flammable limits - LEL: N/A, UEL: N/A.

NFPA HAZARD ID: Health: 0, Flammability: 2, Reactivity: 0

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Absorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

PERSONAL PRECAUTIONS: See Section 8

7. HANDLING AND STORAGE

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.

RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.

EYE PROTECTION: Normal industrial eye protection practices should be employed.

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed.

EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for oil mist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid

COLOR: Light Amber

ODOR: Mild

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): > 316(600)

MELTING POINT C(F): NA

FLASH POINT C(F): > 171(340) (ASTM D-93)

FLAMMABILITY: NE

AUTO FLAMMABILITY: NE

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: < 0.1

VAPOR DENSITY: > 2.0

EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.86

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: NE

VISCOSITY AT 40 C, cSt: > 18.7

VISCOSITY AT 100 C, cSt: 4.0

POUR POINT C(F): -15(5)

FREEZING POINT C(F): NE

VOLATILE ORGANIC COMPOUND: NA

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

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10. STABILITY AND REACTIVITY**STABILITY (THERMAL, LIGHT, ETC.):** Stable.**CONDITIONS TO AVOID:** Extreme heat.**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizers.**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide.**HAZARDOUS POLYMERIZATION:** Will not occur.**11. TOXICOLOGICAL DATA****---ACUTE TOXICOLOGY---****ORAL TOXICITY (RATS):** LD50: > 15 g/kg Practically non-toxic.**DERMAL TOXICITY (RABBITS):** LD50: > 5 g/kg Practically non-toxic.**INHALATION TOXICITY (RATS):** Not applicable ---Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foreseeable handling, use, or misuse of this product.**EYE IRRITATION (RABBITS):** Practically non-irritating. (Draize score: 0 or greater but 6 or less). ---Based on testing of similar products and/or the components.**SKIN IRRITATION (RABBITS):** Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.**---SUBCHRONIC TOXICOLOGY (SUMMARY)---**

severely solvent refined and severely hydrotreated mineral base oils have been tested at Mobil Environmental and Health Sciences Laboratory by dermal application to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---CHRONIC TOXICOLOGY (SUMMARY)---

The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects.

---OTHER TOXICOLOGY DATA---

DMSO extract by IP346 is less than 1%.

12. ECOLOGICAL INFORMATION**ENVIRONMENTAL FATE AND EFFECTS:** Not established.

09/08/01

22/08/01/07/01

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13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, MITL, DSL, KOREA, and PHILIPPINES.

EU Labeling: EU labeling not required.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:
This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains no chemicals reportable under
SARA (313) toxic release program.

THIS PRODUCT MEETS THE REQUIREMENTS OF FDA REGULATIONS(9): 178.3620C

(Section continued next page)

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The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
---------------	------------	----------------

*** NO REPORTABLE INGREDIENTS ***

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL	6=IARC 1	11=TCSCA 4	15=CA P65 CARC	21=LA RTK
2=ACGIH A1	7=IARC 2A	12=TCSCA 5a2	17=CA P65 REPRO	22=MI 283
3=ACGIH A2	8=IARC 2B	13=TCSCA 5b	18=CA RTK	23=MDN RTK
4=ATP CARC	9=OSHA CARC	14=TCSCA 6	19=PL RTK	24=NIJ RTK
5=ATP SUS	10=OSHA 2	15=TCSCA 12b	20=IL RTK	25=PA RTK
				26=RI RTK

Code key: CARC-Carcinogen; SUS-Suspected Carcinogen; REPRO-Reproductive

16. OTHER INFORMATION

USE: BASE STOCK

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBs.

INGREDIENT DESCRIPTION	PERCENT	CAS NUMBER
SOLVENT DERIVED HEAVY PARAFFINIC DISTILLATE (PETROLEUM)	100	64742-63-0

 For Internal Use Only: MHC: 0 0 NA 0* 1*, MPPEC: A, TRN: 921437-00,
 CMCS97: 975092, REG: US - MARKETING, SAFE USE: L
 EHS Approval Date: 07MAY1999

(Section continued next page)

02/10/01

276000/6720 01

AMCS UN21 100% VEM 01 UN21 00% VEM 100% VEM

80-4 7101
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100 SUR SURFACIAL

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Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, republication or retransmission of this document, in whole or in part, is not permitted. Mobil assumes no responsibility for accuracy of information unless the document is the most current available from an official Mobil distribution system. Mobil neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.

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2620

Stolt/Haven

2620



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Material / Product Approval Letter

Date 2/19/2008

Dear Pete Forline

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2620

Expiration Date 2/19/2010

Producer: Stolthaven Houston, Inc.
Address: 15602 Jacintoport Blvd.
Houston, TX 77015

Material / Product Information

Name of Material / Product Centrifuged wax

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Alpha Olefin 30+ wax bottoms that have been centrifuged

Color: white

Odor: none

pH: na

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

std PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO108002341

gfr
OK



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

gfr

SECTION 1: Material Producer Information

Company: Stolthaven Houston, Inc
Address: 15602 Jacintoport Blvd
City, State, Zip: Houston, TX 77015
Contact: Pete Forline Title: Superintendent Wastewater Dept
Phone No: 281-860-6806 Fax No: 281-860-6860
24/hr Phone: 281-860-6800
U.S. EPA I.D. No: TXD980748461
State I.D. 33722 SIC Code: NA

SECTION 2: Billing Information - ☒ Same as Above

Company: _____
Address: _____
City, State, Zip: _____
Contact: _____ Title: _____
Phone No: _____ Fax No: _____

SECTION 3: General Description of the Material / Product

Name of Material / Product: Centrifuged Wax
Detailed Description of Process Generating or Producing the Material / Product: Alpha Olefin 30+ Wax Bottoms that have been centrifuged

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: White Odor: none

Specific Gravity (water=1): 0.79 Density: 6.6 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: _____ 5000 gal _____

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 1 Other: _____

Proper U.S. DOT Shipping Name: Product Non RCRA/Non DOT Regulated Material

Class: N/A UN/NA: N/A PG: N/A RQ: N/A

Flash Point 450 deg F	pH N/A	N/A	N/A	Solids 100%
Oil&Grease N/Amg/l	TOC N/Amg/l	Zinc N/Amg/l	Copper N/Amg/l	Nickel N/Amg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The material / product consists of the following materials		Ranges are acceptable	or %
Alpha Olefin 30+ Wax		100	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.
standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Material Producer's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: N/A Date: _____

Printed Name/Title: no signature required

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: <u>[Signature]</u>	
Date: <u>2-19-08</u>	Approved <input checked="" type="radio"/> Rejected <input type="radio"/>
Approval Number: <u>2620</u>	

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

pay \$0.08/lb
no charge for frieght

2. Contamination Limits (maximum limit before surcharges apply):

N/A

3. Surcharge Pricing:

N/A

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

--

8. **Management for Product Recovered/Recycled (if applicable):**

Heat to liquid & redirect to buyer according to job write-up

--

Material Safety Data Sheet

ALPHA OLEFIN 30+ HA

24-Hour Emergency Telephone Numbers

HEALTH :ChevronTexaco Emergency Information Center (800) 231-0623 or (510) 231-0623

TRANSPORTATION : USA: CHEMTREC (800) 424-9300 or (703) 527-3887

ASIA: (800) ALERTSGS or (800) 25378747 or +65+6542+9595

EUROPE: +32+14+584545 (phone) or +32+14+583516 (telefax)

SOUTH AMERICA SOS-Cotec Inside Brazil: 0800+111+767

Outside Brazil: 55+19+3467+1600

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

ALPHA OLEFIN 30+ HA

Product Number(s): CC02073700, CC02073600, CC02904000, CC02904100, CC03620200, CC03746500, CC03804100, CC03807400

Company Identification:

Chevron Phillips Chemical Company LP
10001 Six Pines Drive
The Woodlands, TX 77380

Product Information:

MSDS Requests: (800) 852-5530
Technical Information: (800) 852-5531

SECTION 2 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	AMOUNT
ALKENE C30+	260255-62-7	100.00 % weight

Occupational Exposure Limits:

Component	Limit	TWA	STEL	Ceiling	Notation
ALKENE C30+	CPCHEM	Not Established	NA	NA	NA

MEDICAL APPLICATION CAUTION: Do not use this Chevron Phillips Chemical Company, LP material in medical applications involving permanent implantation in the human body or permanent contact with internal body fluids or tissues.

Do not use this Chevron Phillips Chemical Company, LP material in medical applications involving brief or temporary implantation in the human body or contact with internal body fluids or tissues unless the material has been provided directly from Chevron Phillips Chemical Company, LP or by an authorized or approved Chevron Phillips Chemical Company, LP distributor under a contract which expressly acknowledges the contemplated use.

Chevron Phillips Chemical Company, LP makes no representation, promise, express warranty or implied warranty concerning the suitability of this material for use in implantation in the human

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EPAHO108002346

body or in contact with internal body fluids or tissues.

SECTION 3 HAZARDS IDENTIFICATION

White, waxy solid.

IMMEDIATE HEALTH EFFECTS:

Eye: If this material is heated, thermal burns may result from eye contact. Not expected to cause prolonged or significant eye irritation.

Skin: Thermal burns to the skin: may include pain or feeling of heat, discoloration, swelling, and blistering. If this material is heated, thermal burns may result from skin contact. Not expected to be harmful to internal organs if absorbed through the skin. Contact with the skin is not expected to cause prolonged or significant irritation.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled. If this material is heated, fumes may be unpleasant and produce nausea and irritation of the upper respiratory tract.

SECTION 4 FIRST AID MEASURES

Eye: If heated material should splash into eyes, flush eyes immediately with fresh water for 15 minutes while holding the eyelids open. Remove contact lenses, if worn. Get immediate medical attention. No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: If the hot material gets on skin, quickly cool in water. See a doctor for extensive burns. Do not try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin.

Ingestion: No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person.

Inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

SECTION 5 FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0

FLAMMABLE PROPERTIES:

Flashpoint: 232°C (449.6°F) (Pensky-Martens Closed Cup)

Autoignition: 368°C (694.4°F)

Flammability (Explosive) Limits (% by volume in air): Lower: NDA Upper: NDA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: If heated material is spilled, allow it to cool before proceeding with disposal methods. Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: U.S.A. regulations require reporting spills of this material that could reach any surface waters. Report spills to local authorities and/or the U.S. Coast Guard National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. REFER TO PRODUCT LABEL OR MANUFACTURERS TECHNICAL BULLETINS FOR THE PROPER USE AND HANDLING OF THIS MATERIAL.

Precautionary Measures: Do not breathe vapor or fumes from heated material. Avoid contact of heated material with eyes, skin, and clothing. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

Unusual Handling Hazards: Potentially toxic/irritating fumes may be evolved from heated material.

General Handling Information: Avoid work practices that may release volatile components in the atmosphere. Local air pollution regulations should be consulted to determine if the release of volatile components is regulated or restricted in the area in which this material is used. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations, which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77), 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:

If heated material generates vapor or fumes, use process enclosures, local exhaust ventilation, or

other engineering controls to control exposure. Use in a well-ventilated area. If user operations generate airborne material, use process enclosures, local exhaust ventilation, or other engineering controls to control exposure.

PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face Protection: If this material is heated, wear chemical goggles or safety glasses and a face shield. No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: If this material is heated, wear insulated clothing to prevent skin contact if engineering controls or work practices are not adequate to prevent skin contact. No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: Nitrile Rubber, or Polyurethane, or Viton

Respiratory Protection: No respiratory protection is normally required. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Full-Face Supplied-Air Respirator, or Full-Face Air-Purifying Respirator for Organic Vapors

Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Limit	TWA	STEL	Ceiling	Notation
ALKENE C30+	CPCHEM	Not Established	NA	NA	NA

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: White, waxy solid.

pH: NA

VAPOR PRESSURE: NA

VAPOR DENSITY (AIR=1): NA

BOILING POINT: NA

SOLUBILITY: Soluble in hydrocarbon solvents; insoluble in water.

VISCOSITY: 7.4 CST @ 99°C

MELTING POINT: 74°C (165.2°F)

SPECIFIC GRAVITY: 0.79 @ 15.6 °C

DENSITY: 0.833 g/ml @ 60 °F

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to Avoid: No Data Available

Incompatibility With Other Materials: May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous Decomposition Products: No Data Available

Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS:

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Acute Oral Toxicity: The oral LD50 in the rat is > 2.0 g/kg.

Acute Dermal Toxicity: The dermal LD50 is not available.

Acute Inhalation Toxicity: The inhalation LC50 is not available.

Eye Irritation: This material is not expected to be irritating to the eyes.

Skin Irritation: This material is not expected to be irritating to the skin.

ADDITIONAL TOXICOLOGY INFORMATION:

The toxicological properties of this product have not been tested or have not been tested completely and its handling or use may be hazardous. EXERCISE DUE CARE.

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY:

This material is not expected to be harmful to aquatic organisms. The ecotoxicity hazard is based on data for a similar material.

ENVIRONMENTAL FATE:

This material is considered ultimately, but not readily, biodegradable. The biodegradability of this material is based on data for a similar material.

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Name: NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION

DOT Hazard Class: NOT APPLICABLE

DOT Identification Number: N/A

DOT Packing Group: NOT APPLICABLE

SECTION 15 REGULATORY INFORMATION

SARA 311/312 CATEGORIES:

- | | |
|---------------------------------------|----|
| 1. Immediate (Acute) Health Effects: | NO |
| 2. Delayed (Chronic) Health Effects: | NO |
| 3. Fire Hazard: | NO |
| 4. Sudden Release of Pressure Hazard: | NO |

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ALPHA OLEFIN 30+ HA
MSDS : CPC00027

5. Reactivity Hazard:

NO

REGULATORY LISTS SEARCHED:

04A = IARC Group 1	12 = TSCA Section 8(a) PAIR	21 = TSCA Section 5(a)
04B = IARC Group 2A	13 = TSCA Section 8(d)	25 = CAA Section 112 HAPs
04C = IARC Group 2B	15 = SARA Section 313	26 = CWA Section 311
05 = NTP Carcinogen	16 = CA Proposition 65	28 = CWA Section 307
06 = OSHA Carcinogen	17 = MA RTK	30 = RCRA Waste P-List
09 = TSCA 12(b)	18 = NJ RTK	31 = RCRA Waste U-List
10 = TSCA Section 4	19 = DOT Marine Pollutant	32 = RCRA Appendix VIII
11 = TSCA Section 8(a) CAIR	20 = PA RTK	33 = MN Hazardous Substance

WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

CHEMICAL INVENTORY LISTINGS:

CANADA: All the components of this material are on the Canadian Domestic Substances List (DSL).

EUROPEAN UNION: All the components of this material are in compliance with the EU Seventh Amendment Directive 92/32/EEC.

JAPAN: All the components of this product are on the Existing & New Chemical Substances (ENCS) inventory in Japan, or have an exemption from listing.

UNITED STATES: All of the components of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory.

SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0
HMIS RATINGS: Health: 0 Flammability: 1 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT: This is an original Chevron Phillips Chemical Company LP MSDS. It has been created out of a new authoring system under direction of Chevron Phillips Chemical Company LP Product Stewardship Group.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV	- Threshold Limit Value	TWA	- Time Weighted Average
STEL	- Short-term Exposure Limit	PEL	- Permissible Exposure Limit
ACGIH	- American Conference of Government Industrial Hygienists	OSHA	- Occupational Safety & Health
NIOSH	- National Institute of Safety & Health	NFPA	- National Fire Protection Agency

Revision Number: 0
Revision Date: 11/18/2002

6 of 7

ALPHA OLEFIN 30+ HA
MSDS : CPC00027

WHMIS	- Workplace Hazardous Materials Information System	IRAC	- Intl. Agency for Research on Cancer
EINECS	- European Inventory of existing Commercial Chemical Sales	RCRA	- Resource Conservation Recovery Act
SARA	- Superfund Amendments and Reauthorization Act.	TSCA	- Toxic Substance Control Act
EC50	- Effective Dose	LC50	- Lethal Concentration
LD50	- Lethal Dose	CAS	- Chemical Abstract Service Number
NDA	- No Data Available	NA	- Not Applicable
<=	- Less Than or Equal To	>=	- Greater Than or Equal To
CNS	- Central Nervous System		

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by EHS Product Stewardship Group, Chevron Phillips Chemical Company LP, 10001 Six Pines Drive, The Woodlands, TX 77380

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Stolthaven Horston 2621

7⁹
8-4-09
LAB
T-35



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 2/21/2008

Dear Pete Forline

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2621

Expiration Date 2/21/2010

Generator: Stolthaven Houston, Inc.

Address: 15602 Jacintoport Blvd.
Houston, TX 77015

Waste Information

Name of Waste: Light ends

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Alcohol product heel from barge clean-out

Color: varies

Odor: mild

pH: 6-8

Physical State:

Incompatibilities: nitrates, strong oxidizers, acids, alkalis, ignites in contact with potassium-tert-butoxide, heat, sparks, open flames and sources of ignitions

Safety Related Data/Special Handling:

see msds

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO108002355

2-20-08
YGP OK after
✓ Flash Pt = 60°F
✓ Sec. 7
PFI u. dens: 1.2

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
 Phone: (713) 676-1460 Fax: (713) 676-1676
 http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Stolthaven Houston, Inc.
 Address: 15602 Jacintoport Blvd
 City, State, Zip: Houston, TX 77015
 Contact: Pete Forline Title: Superintendent Wastewater Dept
 Phone No: 281-860-6806 Fax No: 281-860-6860
 24/hr Phone: _____
 U.S. EPA I.D. No: TXD980748461
 State I.D. 33722 SIC Code: NA

SECTION 2: Billing Information - ☒ Same as Above

Company: _____
 Address: _____
 City, State, Zip: _____
 Contact: _____ Title: _____
 Phone No: _____ Fax No: _____

SECTION 3: General Description of the WasteName of Waste: Light Ends ~~Dimer~~Detailed Description of Process Generating Waste: Alcohol product heel from barge clean-out

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: variesOdor: mildSpecific Gravity (water=1): 0.8-0.95Density: 6.6-7.9 lbs/galDoes this material contain any total phenolic compounds? ☐ Yes ☒ NoDoes this material contain any para substituted phenolic compounds? ☐ Yes ☒ NoLayers: ☒ Single-phase ☐ Multi-phaseContainer Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)Container Size: 55 galFrequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ YearlyNumber of Units (containers): 2 Other: _____Texas State Waste Code No: RecycleProper U.S. DOT Shipping Name: n-PROPANOL (Propyl ALCOHOL, NORMAL)Class: 3

UN/NA:

UN 1274

PG: IIIRQ: 100 lbs None

Flash Point 60 F	pH 6-8	Reactive Sulfides N/Amg/l	Reactive Cyanides N/Amg/l	Solids 0%
Oil & Grease N/Amg/l	TOC N/Amg/l	Zinc N/Amg/l	Copper N/Amg/l	Nickel N/Amg/l

SECTION 4: Physical and Chemical Data

COMPONENT TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
n-propanol	90-100	%
Water	0-10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

see msds

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Incompatible with nitrates, strong oxidizers, acids, & alkalis. Ignites in contact with potassium-tert-butoxide. Heat, sparks, open flames and sources of ignition.

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: N/A
 TCLP Volatiles: N/A
 TCLP Semi-Volatiles: N/A
 Reactivity: the product is stable
 Corrosivity: N/A
 Ignitability: Flammable liquid (flash point below 100 deg F)

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Pete Forline

Date: Feb 19, 2008

Printed Name/Title: Pete Forline Environmental Superintendent

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: <u>[Signature]</u>	
Date: <u>2-21-08</u>	Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>
Approval Number: <u>2621</u>	

SECTION 10: Waste Receipt Classification Under 40 CFR 437Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☒ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/l.

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION II: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

\$ 65 / drum + trans + fsc

2. Contamination Limits (maximum limit before surcharges apply):

fuel compatible

3. Surcharge Pricing:

4. Special Testing Requirements:

fuel compatible; run density.
Test water phase for pH, R total phenolics.

5. Treatment and Handling Protocol:

mix w/ light ends

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

fuel compatible

8. Management for Product Recovered/Recycled (if applicable):

Add to CES right ends



Material Safety Data Sheet

n-Propanol

1 Chemical product and company identification

Common name	: n-Propanol	Code	: 2044
Supplier	: Sasol Solvents Trading as Sasol Chemicals North America LLC, 900 Threadneedle, Suite 100 Houston, Texas 77079 USA Telephone: 281 588 3000 Facsimile: 281 588 3381	MSDS#	: 19
Synonym	: 1-Propanol, Hydroxypropane, 1-Propyl alcohol, Ethyl carbinol, n-Propan-1-ol, Propyl alcohol.	Validation date	: 08/05/2002.
Trade name	: n-Propanol	Print date	: 15/05/2002.
Material uses	: Consumer products: Degreasing agent. Industrial applications: Antiseptic. Intermediate. Organic syntheses. Solvent for waxes, cellulose esters and flexographic inks. Petrochemical industry: As a diluent in brake fluids and polishing materials. Chemical intermediate.	Prepared by	: Lehlohonolo B Mothebe
Manufacturer	: Sasol Chemical Industries Ltd. Private bag X1000 Secunda 2302 South Africa TEL: +27 17 610-2416	In case of emergency	: Chemtrec: 800-424-9300 International: 091-703-527-3887

2 Composition / information on ingredients

Name	CAS #	% by weight	Exposure limits
1) n-Propanol	71-23-8	99.9	ACGIH (United States, 2002). TWA: 200 ppm ACGIH TLV (United States, 2002). TWA: 492 mg/m ³ STEL: 250 ppm OSHA PEL Z2 (United States, 2002). TWA: 200 ppm TWA: 500 mg/m ³

3 Hazards identification

Physical state and appearance : Liquid. (Liquid)

Emergency overview : WARNING!

CAUSES EYE IRRITATION.
FLAMMABLE LIQUID AND VAPOR.
VAPOR MAY CAUSE FLASH FIRE.
MAY BE HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED.
MAY CAUSE SKIN IRRITATION.

Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Avoid prolonged contact with eyes, skin, and clothing. Do not ingest. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Routes of entry : Absorbed through skin. Eye contact. Inhalation. Ingestion.

Continued on Next Page

Potential acute health effects

- Eyes** : Very hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.
- Skin** : Hazardous in case of skin contact (irritant, permeator). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
- Inhalation** : Hazardous in case of inhalation.
- Ingestion** : Hazardous in case of ingestion.

Potential chronic health effects

- : **CARCINOGENIC EFFECTS:** Classified None. by OSHA, None. by NIOSH.
- : **MUTAGENIC EFFECTS:** Not listed.
- : **TERATOGENIC EFFECTS:** Not listed.

Medical conditions aggravated by overexposure:

- : Persons with pre-existing eye, skin, respiratory, neurological or allergic conditions may be more sensitive. n-Propanol enhances the CNS effect of m-dinitrobenzene, hence persons also exposed to this chemical may be more sensitive.

Overexposure /signs/symptoms

- : **CNS depression:** Dizziness, incoordination, headache, confusion, stupor, hematemesis, diarrhea, circulatory collapse, persistent coma, death by respiratory arrest.
- Late manifestations: aspiration pneumonia, kidney and liver dysfunction, which are usually mild and transient, but the renal impairment may be serious.

See toxicological information (section 11)

4 First aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention immediately.
- Skin contact** : After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion** : DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform artificial respiration. Seek immediate medical attention.
- Notes to physician** : Support respiratory and cardiovascular function.

5 Fire fighting measures

- Flammability of the product** : Flammable.
- Autoignition temperature** : 371°C (699.8°F)
- Flash points** : CLOSED CUP: 15°C (59°F). OPEN CUP: 23°C (73.4°F). (Cleveland).
- Flammable limits** : LOWER: 2.1% UPPER: 13.5%
- Products of combustion** : These products are carbon oxides (CO, CO₂).
- Fire hazards in presence of various substances** : Highly flammable in presence of open flames and sparks, of heat, of oxidizing materials.
- Explosion hazards in presence of various substances** : Risks of explosion of the product in presence of mechanical impact: None.
Risks of explosion of the product in presence of static discharge: Not available.
Incompatible with strong oxidisers, nitrates, alkalis and acids.
- Fire fighting media and instructions** : **SMALL FIRE:** Use DRY chemical powder.
LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
- Protective clothing (fire)** : Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.
- Special remarks on fire hazards** : Explosive in the form of vapor when exposed to heat or flame. Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition it emits acrid smoke and irritating fumes.
- Special remarks on explosion hazards** : Contact with strong oxidizers may cause an explosion. Run-off to sewers may cause a fire or explosion hazard. Containers may explode when heated.

Continued on Next Page

6 Accidental release measures

- Small spill and leak** : Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
- Large spill and leak** : Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.

7 Handling and storage

- Handling** : Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
- Storage** : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

8 Exposure controls, personal protection

- Engineering controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protection

- Eyes** : Splash goggles.
- Body** : Chemical resistant protective suit.
- Respiratory** : Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
- Hands** : Butyl rubber gloves.
- Feet** : Chemical resistant safety boots.

Protective clothing (pictograms) :



- Personal protection in case of a large spill** : Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product name	Exposure limits
1) Propyl alcohol	ACGIH (United States, 2002). TWA: 200 ppm ACGIH TLV (United States, 2002). TWA: 492 mg/m ³ STEL: 250 ppm OSHA PEL Z2 (United States, 2002). TWA: 200 ppm TWA: 500 mg/m ³

9 Physical and chemical properties

- Physical state and appearance** : Liquid. (Liquid)
- Color** : Colorless liquid with a mild alcoholic odor
- Odor** : Alcohol like. (Slight.)
- Taste** : Burning. (Strong.)
- Molecular weight** : 60.09g/mole
- Molecular formula** : C₃-H₈-O
- pH (1% soln/water)** : 7 [Neutral.]
- Boiling/condensation point** : 97.2°C (207°F)
- Melting/freezing point** : -126.2°C (-195.2°F)

Continued on Next Page

Critical temperature	: 263.7°C (506.7°F)
Specific gravity	: 0.804 (Water = 1)
Vapor pressure	: 14.9 mm of Hg (@ 20°C)
Vapor density	: 2.1 (Air = 1)
Volatility	: 100% (v/v). 100% (w/w).
Odor threshold	: 5.3 ppm
Evaporation rate	: 1.3 [Solvent]
VOC	: 100 (%)
Viscosity	: 2.256 cP
LogK_{ow}	: The product is more soluble in oil; log(oil/water) = 0.3
Ionicity (in water)	: Not available.
Dispersion properties	: See solubility in water, methanol, diethyl ether.
Solubility	: Easily soluble in cold water, hot water, methanol, diethyl ether.
Physical chemical comments	: No additional remark.

10 Stability and reactivity

Stability and reactivity	: The product is stable.
Conditions of instability	: Heat, sparks and flames.
Incompatibility with various substances	: Incompatible with nitrates, strong oxidizers, acids and alkalis. Ignites in contact with potassium-tert-butoxide.
Hazardous decomposition products	: Emits acrid smoke and irritating fumes. May release Carbon monoxide.
Hazardous polymerization	: Will not occur.

11 Toxicological information

Toxicity to Animals	: WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 1870 mg/kg [Rat]. Acute dermal toxicity (LD50): 4060 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 4000 ppm 4 hour(s) [Rat].
Chronic effects on humans	: CARCINOGENIC EFFECTS: Classified None. by OSHA, None. by NIOSH. Causes damage to the following organs: kidneys, lungs, liver, cardiovascular system, skin.
Other toxic effects on humans	: Very hazardous in case of eye contact (irritant). Hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.
Special remarks on toxicity to animals	: No additional remark.
Special remarks on chronic effects on humans	: No additional remark.
Special remarks on other toxic effects on humans	: Exposure can cause nausea, headache and vomiting.

12 Ecological information

Ecotoxicity	: Ecotoxicity in water (LC50): 1822865.7 ppm 96 hour(s) [Fathead minnow].
BOD and COD	: The BOD5 is 6.4 mg/L [5 days Day(s)] The COD is 0.071 mg/kg [1 hr Day(s)]
Biodegradable/OECD	: Biodegradable from OECD.
Mobility	: Not available.
Products of degradation	: Possibly hazardous short term degradation products are not likely.
Toxicity of the products of biodegradation	: The products of degradation are less toxic than the product itself.
Special remarks on the products of biodegradation	: No food chain concentration potential.

Continued on Next Page





13 Disposal considerations

Waste information : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste stream : Hazardous waste: Ignitable RQ is 100 lbs.

Consult your local or regional authorities.

14 Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	1274	n-PROPANOL (PROPYL ALCOHOL, NORMAL)	3	II		Reportable Quantity 100 lbs. (45.36 kg)
TDG Classification	UN1274	n-PROPANOL (PROPYL ALCOHOL, NORMAL)	3	II		-
IMDG Class	1274	n-PROPANOL (PROPYL ALCOHOL, NORMAL)	3	II		-
IATA-DGR Class	1274	n-PROPANOL (PROPYL ALCOHOL, NORMAL)	3	II		-

15 Regulatory information

HCS classification : Class: Flammable liquid having a flash point lower than 37.8°C (100°F).

U.S. Federal regulations : TSCA 8(b) inventory: Propyl alcohol

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304/311/312 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

State regulations

: Pennsylvania RTK: Propyl alcohol

Florida: Propyl alcohol

Massachusetts RTK: Propyl alcohol

California prop. 65: No products were found.

EU Regulations

Hazard symbol(s)



Classification

: Highly flammable, Harmful

Risk phrases

: R11- Highly flammable.

R41- Risk of serious damage to eyes.

R67- Vapors may cause drowsiness and dizziness.

Continued on Next Page

Safety phrases : S7- Keep container tightly closed.
S16- Keep away from sources of ignition - No smoking.
S24- Avoid contact with skin.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39- Wear eye/face protection.

EINECS Number : 200-746-9.

16 Other information

**National Fire
Protection Association
(U.S.A.)**



References : - LOLI Database: The regulated Chemicals List of Lists.
- CHEMINFO: Canadian Centre for Occupational Health and Safety, Issue: 97-3 (August, 1997).-
BDH; Hazard Data Disk, Version 3.- CESARS: Chemical Evaluation and Retrieval System, Produced
by: Ontario Ministry of Environment and Michigan Department of Natural Resources, Issue:97-3
(August, 1997).- TOMES Plus System: Toxicology, Occupational Medicine & Environmental Series:
incorporating:- MEDITEX, HAZARDTEXT, 1st Medical Response Protocols, INFOTEXT, HSDB, CHRIS,
OHM/TADS, IRIS, NIOSH Pocket Guide, RTECS, NJ Fact Sheets, North American Emergency
Response Guides, REPROTEXT, REPROTOX, TERIS, Shepard's Catalog of Teratogenic Agents.

Other special considerations : No additional remark.

Date of printing : 15/05/2002.

Date of issue : 08/05/2002.

Date of previous issue : No Previous Validation.

Version : 2

Verified by : Tom Grumbles.

Notice to reader

This MSDS summarises at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product, and in particular how to safely handle, use, store and transport the product in the workplace. Since SASOL and its subsidiaries cannot anticipate or control the conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review this MSDS in the context of how the user intends to handle, use, store or transport the product in the workplace and beyond, and communicate such information to all relevant parties. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

We shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given unless there has been gross negligence on our part. In such event our liability shall be limited only to direct damages suffered. Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request. All risk associated with the possession and application of the product passes on delivery.

BOX # 109

TYPE OF DOCUMENTS: Customer file folders.
Waste profiles.

DOCUMENTS OF INTEREST:

- | | | |
|----------------------------------|--|-----------------------|
| - Lee Waste management | - Noltex | - Eagle Construction |
| - Palytex Files Files | - PACES (gasoline/water mix) | - Delta Toyota |
| - Santomex | - GATX (Heating) | - Nat'l Oil Well |
| - MIC | - Removal of heels from RCRA Empty Rakeleers | - Arkema |
| - Bioselect Fuels | - China Plant | - Malin Ship Repair |
| - TT Barge | - Drilltec | - C+C Chumbe |
| - Zach Systems. | - Cameron Compressor | - Harvest Pipeline |
| - Tubal - Cain | - Industrial Degreasing Serv. | - Noltex |
| - Rolled Alloys | - Hydrocarbon Engineering | - Cameron Compressor |
| - Smith International | - SAIA | - Houston Marine |
| - Rio Tinto Minerals | - K.P. Murphy | - Vertex |
| - Hydroden Industry | - Cethyl Corp. | - SW Sheppard |
| - Proxair | - San Jacinto College | - Bay Systems |
| - Old World Industries | - TAS Commercial Concrete | - Zach Systems |
| - Quest Chemicals | - Soltex | - Preston Env. |
| - Bioselect Fuels | - AmeriPac | - PK Manufacturing |
| | - Global Technology | - Smith Intl. |
| | | - Harcross Chemical |
| | | - Enviro Solutions |
| | | - Hydroden |
| | | - Paramount Petroleum |

VIOLATIONS SUPPORTED: DOT RCRA SDWA OSHA

BOX SEARCH BY: Y. Kuff

DATE SEARCHED: 10/14/09

- Douglas Valve
- Soltex
- Future Environmental
- H & W Petroleum
- Afton Chem.
- KMC O
- Enviro
- Cameron Compressor

3366

T.T. Barge



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/11/2009

Dear Accounts Payable- Donna Landry

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3366

Expiration Date 6/11/2011

Generator: T.T. Barge (Mile 237)
Address: 5190 North River Road
Port Allen, LA 70767

Waste Information

Name of Waste: Hazardous Wastewater

TCEQ Waste Code #: OUTS102H

Container Type:

Detailed Description of Process Generating Waste:

water from rinseout of barge residue bottoms

Color: varies-brown

Odor: mild

pH: 5-10

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



HAZardous DC/MM

Need LDR docs.
Thanks

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: T.T. Barge (Mile 237)
Address: 5190 North River Road
City: Port Allen State: LA Zip: 70767
Contact: Jeff Babin Title: _____
Phone Number: 225-267-4505 Fax Number: _____
24/hr Phone Number: 225-279-0019
US EPA ID No: LAD982306763
State ID No: _____ 99922 SIC Code: _____

SECTION 2: Billing Information - ☐ Same as Above

Company: T.T. Barge (Attn: Accounts Payable)
Address: 19368 Hwy 36
City: Covington State: LA Zip: 70433
Contact: Donna Landry Title: _____
Phone Number: 225-473-8222 Fax Number: 225-473-2199

SECTION 3: General Description of the Waste

Name of Waste: Hazardous Wastewater

Detailed Description of Process Generating Waste:

water from rinseout of barge residue bottoms

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: varies - brown Odor: mild

Specific Gravity (water=1): .98-1.02 Density: _____ lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☐ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☐ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☐ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☐ One-Time

Quantity: 20,000 gallons

☒ Yes ☐ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
 Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

D018

☐ Yes ☒ No

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

Texas State Waste Code Number: OUTS102H

Class: 9 **UN/NA:** NA3082 **PG :** III **RQ:**

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>140		5-10		NA <u>mg/l</u>		NA <u>mg/l</u>		<2 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
100	<u>mg/l</u>	25,000	<u>mg/l</u>	<1	<u>mg/l</u>	<1	<u>mg/l</u>	<1	<u>mg/l</u>

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package.

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	x
Ignitability:	X

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☒ YES

☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☒ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
- Cadmium: 0.2 mg/L
 - Chromium: 8.9 mg/L
 - Copper: 4.9 mg/L
 - Nickel: 37.5 mg/L
- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
- ☐ Metals Subcategory
 - ☐ Oils Subcategory
 - ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: _____

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: _____

Approval Number: _____

☒ Approved

☐ Rejected



LDR Notifications/Certifications

1. Generator Information Name: <u>T.T. Barge (mile 237)</u> Address: <u>5190 North River Road</u> <u>Port Allen, LA 70767</u> EPA ID No.: <u>LAD982306763</u> Manifest No.: _____				2. Receiving Facility Information Name: <u>CES Environmental Services, Inc.</u> Address: <u>4904 Griggs Road</u> <u>Houston, TX 77021</u> EPA ID No.: <u>TXD008950461</u>			
---	--	--	--	--	--	--	--

3. Waste Description at Point of Generation					
Line Item	Waste Description	Hazardous Waste Codes	LDR Subcategory	WW / NWW	Underlying Hazardous Constituents [268.2(i)]
1	Hazardous Wastewater	D018		WW	benzene
2					
3					
4					
5					

4. Waste Disposition				
Line Item	Subtitle C Exclusion Subsequent to Point of Generation (if applicable)	Current Disposition of Waste	268.45, Table 1 Technology used to treat debris (if applicable)	Date Shipped
1				
2				
3				
4				
5				

5. Was the waste hazardous at the point of generation but subsequently became excluded from the definition of hazardous waste or exempt from Subtitle C regulation (including characteristic wastes managed in wastewater treatment systems discharging under the CWA)?
☐ Yes ☒ No (If yes, this constitutes the 268.7(a)(7) one-time notification.)

6. Was the waste characteristic at the point of generation, treated onsite to remove the characteristic, and treatment residues then shipped to a Subtitle D land disposal facility? ☐ Yes ☒ No (If yes, complete Certification 1 or 2.)

7. Was the waste "debris" that was hazardous at the point of generation but subsequently became excluded from the definition of hazardous waste under 261.3(f)(1) by treating it using an extraction or destruction technology in 268.45, Table 1? ☐ Yes ☒ No (If yes, complete Certification 3.)

8. Was the waste "debris" that was hazardous at the point of generation but subsequently became excluded from the definition of hazardous waste under 261.3(f)(2) by receiving a "no-longer-contains" determination from EPA or the authorized state? ☐ Yes ☒ No (If yes, this constitutes the 268.7(d)(1) one-time notification.)

9. Is the waste residue from treating K061, K062 and/or F006 wastes in high-temperature metals recovery (HTMR) units that 1) meets the generic exclusion levels in 261.3(c)(2)(ii)(C), 2) does not exhibit any characteristics, and 3) is shipped to a Subtitle D land disposal facility? ☐ Yes ☒ No (If yes, complete Certification 4.)

10. <input type="checkbox"/> Waste that has been treated to remove a characteristic and meets underlying hazardous constituents standards. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristics and that underlying hazardous constituents, as defined in 268.2(i) have been treated on-site to meet the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.	Applies to Items: Reference: 268.7(b)(4)(v) and 268.9(d)
11. <input type="checkbox"/> Waste that has been treated to remove a characteristic but does not meet underlying hazardous constituents standards. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.	Applies to items: Reference: 268.7(b)(4)(v) and 268.9(d)
12. <input type="checkbox"/> Debris that has been treated to meet the alternative treatment standards. I certify under penalty of law that the debris has been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.	Applies to Items: Reference: 268.7(b)(4)(v) and 268.9(d)
13. <input type="checkbox"/> HTMR residue from treating K061, K062 and/or F006 wastes. I certify under penalty of law that the generic exclusion levels for all constituents have been met without impermissible dilution and that no characteristic of hazardous waste is exhibited. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.	Applies to Items: Reference: 268.7(b)(4)(v) and 268.9(d)

Authorized Signature:

Date: 6/10/07

Printed Name / Title:

Jeffery Babian Environmental Safety Mgr



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$0.23/gallon plus \$900.00/load freight

2. Contamination Limit (maximum limit before surcharges apply):

TOC: 20,000 Solids: 4% Oil: 5%

3. Surcharge Pricing:

TOC: \$0.03/gallon/5,000 TOC Greater than 20,000; Solids: \$0.01/gallon/% greater than 4%; Oil - see salesperson

4. Special Testing Requirements:

Solids, TOC, Oil, phenol, metals,

5. Treatment and Handling Protocol:

heat and acidify to break out hydrocarbon layer, treat water phase, mix hydrocarbon phase with black oils

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☒ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

black oil compatability

8. Management for Product Recovered/Recycled (if applicable)

mix with black oils



4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Dana Carter
Cc: Matt Bowman, Prabhaker, Joe Camp, Clint Hopkins

Date: 3/11/09

From: Miles Root

Lab Memo: 09-044

Subject: **TT Barge Evaluation 0309-20**

A sample of oily water from TT Barge has been evaluated for potential processing at CES. This sample is evaluation 0309-20, and is material from the cleaning of barges last containing benzene related materials. The potential volume of this source is three loads per week. Overall, we can process this oily water with our standard acid/heat treat. The benzene, if any, should not be an issue, as it will stay in the oil phase when this material is heated and acidified. I recommend we pursue the acquisition of this stream for processing.

The oily water has an approximate 2% oil layer and a pH of 6.. It has a slight hydrocarbon odor and has only a trace of solids. The water treats easily once the oil is removed. The phenol and metals are acceptable. The TOC is 11,490 ppm, so we need to cover this extra cost to us in our charges. This material should come in as a D018 waste but our processing will eliminate that waste code in our water. There are no other concerns with this material.

The table below summarizes the analytical testing.

TT Barge	
Evaluation 0309-20	
Solids, vol%	Trace
Odor	Slight Hydrocarbon
pH	6
Phenols, ppm	5
TOC, mg/L	11,490
Oil, vol%	2
Treatability	OK
Metals, ppm	
Ni	0.011
Zn	0.010
Cu	0.000
Cd	0.028

H04-3428

Le & waste management



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/27/2009

Dear Zac McKaughan or Dave Esman

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3428

Expiration Date 7/27/2011

Generator: Lee Waste Management

Address: P.O. Box 30449
Houston, TX 77249

Waste Information

Name of Waste: Soil with hydro carbons

TCEQ Waste Code #: CESQ3011

Container Type:

Detailed Description of Process Generating Waste:

Truck turned over current, mulch, small hydraulic truck leak

Color: Dark

Odor: Slight

pH: 5-7

Physical State:

Incompatibilities: None

Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

DB
JR

15
Houston

SECTION 1: Generator Information

Company: LEE Waste Management
Address: P.O. Box 30449
City, State, Zip: Houston TX 77249
Contact: Edlongoria Title: Owner
Phone No: 713-039-0316 Fax No: 713-786-1226
24/hr Phone: 281-541-4829
U.S. EPA I.D. No: TX CESQ
State I.D. CESQ SIC Code: _____

SECTION 2: Billing Information - ☐ Same as Above

Company: CES Services
Address: 7420 Homer Egbert
City, State, Zip: Montgomery TX 77316
Contact: Zac McKnight Title: President
Phone No: 936-483-3662 Fax No: 936-786-1226

SECTION 3: General Description of the Waste

Name of Waste: soil with hydrocarbons
Detailed Description of Process Generating Waste: Truck turn over curbing, mulch small hydraulic tank leak

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: dark Odor: slight

Specific Gravity (water=1): _____ Density: _____ lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size: 55g

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly

Number of Units (containers): 10-15 Other: _____

Texas State Waste Code No: CESQ3011

Proper U.S. DOT Shipping Name: Non Hazardous Non Regulated

Class: na UN/NA: na PG: na RQ: na

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Flash Point 2140	pH 5-7	Reactive Sulfides mg/l N/A	Reactive Cyanides mg/l N/A	Solids 100%
Oil & Grease 71500 mg/l	TOC 71500 mg/l	Zinc BRL mg/l	Copper BRL mg/l	Nickel BRL mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Dist. Hydrocarbon (oil, Diesel, muck)	90 - 100	20
	0 - 10	10

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

Analytical

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ☒
 TCLP Volatiles: ☒
 TCLP Semi-Volatiles: ☒
 Reactivity: ☒
 Corrosivity: ☒
 Ignitability: ☒

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: 7/22/09

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: _____	
Date: 7-27-09	Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>
Approval Number: 3428	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

\$ Call Dan for pricing

2. Contamination Limits (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Bulk to class 1 box

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable):

--

LABORATORY ANALYSIS REPORT

KAP TECHNOLOGIES, Inc.

9391 Grogans Mill Rd., Suite A-2

The Woodlands TX 77380

Ph: 281-367-0065 Fax: 281-367-6772

Report Date: July 27, 2009

KAP Lab Episode No: 3410**Customer Project Information / Analytical Requirements**

<u>Client Project Name:</u>	242 & Hwy 59	<u>Client Project Number:</u>	---
-----------------------------	--------------	-------------------------------	-----

Reported To:

CKG Services, LLC.
7420 Honea Egypt Rd.
Montgomery, TX 77316
936-483-3662

Project Manager: Zac McKaughn

E-Mail Address: zacm@ckg-services.com

KAP TECHNOLOGIES, Inc. has analyzed the following samples as indicated on the attached Chain-of-Custody:

	Client Sample Identification	Matrix	Sampling		KAP Lab ID:	Analysis
			Date	Time		
1	Waste Characterization	Soil	7/14/09	10:45	3410-01	TCLP Benzene, TCLP Metals, TPH
2						
3						
4						
5						
6						
7						
8						
9						
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11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Analytical Report Approved by:

M. A. Bellows
for Dr. Rao Alsakani
Laboratory Director



**KAP Technologies is NELAP (T104704394-08A-TX) accredited. Effective: 10/27/2008; Expires: 12/31/2009
Scope: Non-Potable Water and Solids

KAP TECHNOLOGIES, Inc.

9391 Grogans Mill Rd., Suite A-2

The Woodlands, TX 77380

Ph: 281.367.0065 Fax: 281.367.6772

Report Date: 07/27/2009

Laboratory Term and Qualifier Definitions

CFU/100mL	Colony forming units per 100mL of sample	ND	Analyte not detected at or above the reporting limit.
Conc	Concentration	ppm	parts per million
DF	Dilution Factor	QC	Quality Control
LCS	Laboratory Control Sample	Reg Limit	Regulatory Limit
LCSD	Laboratory Control Sample Duplicate	Rpt Limit	Reporting Limit
MDL	Method Detection Limit	RPD	Relative Percent Difference
SQL	Method Quantitation Limit	SQL	Sample Quantitation Limit (Reflects any adjustments made during analysis such as dry weight or dilution.)
MS	Matrix Spike		
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count

C	Sample analysis was sub-contracted to a certified laboratory.
D	Elevated reporting limit due to dilution. Dilution resulted from sample matrix interference or high target analytes or both.
E	Estimated result. Value outside calibration range.
H	Sample analyzed outside the EPA recommended holding time for the requested analysis.
I	Estimated result due to % RSD or correlation coefficient outside the QC limits in the initial calibration.
J	Result is between the MDL and the reporting limit.
L	LCS or LCSD recovery is outside the QC limits.
M	MS or MSD recovery is outside the QC limits.
R	Percent RPD is outside the QC limits.
S	Surrogate recovery is outside the QC limits. Sample results were confirmed by re-analysis.
SD	Surrogate recovery is outside the QC limits due to dilution of the sample.
U	Analyte not detected above the MDL.



KAP TECHNOLOGIES, Inc.

9391 Grogans Mill Rd., Suite A-2
The Woodlands TX, 77380
Ph: 281.367.0065 Fax: 281.367.6772

Laboratory Analysis Report

Volatiles - SW846/8260B

TCLP VOLATILE ORGANIC COMPOUNDS			
CLIENT NAME	:CKG Services LLC	CLIENT SAMPLE ID	:Waste Characterization
PROJECT MANAGER	:Zac McKaughn	LAB SAMPLE ID	:3410.01
PROJECT NAME	:242 & Hwy 69	SAMPLE MATRIX	:TCLP Extract
PROJECT NUMBER	:---	DATE SAMPLED	:07/14/2009
METHOD REFERENCE	:SW846-8260B	DATE RECEIVED	:07/14/2009
INSTRUMENT ID	:A5973	DATE ANALYZED	:07/27/2009
INSTRUMENT FILE	:A22054	TIME ANALYZED	:01:51
SAMPLE VOLUME	:10 mL	ANALYST	:SB
DILUTION FACTOR	:10		

Analyte	Units	Quantitation Limit	Results	Qualifier
Benzene	mg/L	0.010	ND	

QUALITY CONTROL DATA				
Surrogate Compound	Spike Added	% Recovery	QC Limits	Qualifier
Dibromofluoromethane	0.010 mg/L	118	56-153	
1,2-Dichloroethane-d4	0.010 mg/L	110	64-138	
Toluene-d8	0.010 mg/L	97	68-140	
4-Bromofluorobenzene	0.010 mg/L	78	70-137	



KAP TECHNOLOGIES, Inc.

9381 Grogans Mill Rd., Suite A-2

The Woodlands TX. 77380

Ph: 281.367.0065 Fax: 281.367.6772

Laboratory Analysis Report

TCLP Metals 8010B/7470

TCLP METALS			
CLIENT NAME	:CKG Services LLC	CLIENT SAMPLE ID	:Waste Characterization
PROJECT MANAGER	:Zac McKaughn	LAB SAMPLE ID	:3410.01
PROJECT NAME	:242 & Hwy 59	SAMPLE MATRIX	:TCLP Extract
PROJECT NUMBER	: —	ANALYST	:RA
METHOD REFERENCE	:SW846-6010B, 7470	DATE SAMPLED	:07/14/2009
		DATE RECEIVED	:07/14/2009

Analyte	Date Prepared	Date Analyzed	DF	Quantitation Limit	Results	Units	Qualifier
Antimony	7/22/09	7/22/09	1	0.50	ND	mg/L	
Arsenic	7/22/09	7/22/09	1	0.50	ND	mg/L	
Barium	7/22/09	7/22/09	1	1.00	ND	mg/L	
Beryllium	7/22/09	7/22/09	1	0.25	ND	mg/L	
Cadmium	7/22/09	7/22/09	1	0.05	ND	mg/L	
Chromium	7/22/09	7/22/09	1	0.25	ND	mg/L	
Lead	7/22/09	7/22/09	1	0.25	ND	mg/L	
Mercury	7/22/09	7/22/09	1	0.05	ND	mg/L	
Nickel	7/22/09	7/22/09	1	0.25	ND	mg/L	
Selenium	7/22/09	7/22/09	1	0.25	ND	mg/L	
Silver	7/22/09	7/22/09	1	0.50	ND	mg/L	



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Laboratory Analysis Report
TPH (TX1005)

TOTAL PETROLEUM HYDROCARBONS (TX1005)			
CLIENT NAME	:CKG Services LLC	CLIENT SAMPLE ID	:Waste Characterization
PROJECT MANAGER	:Zac McKaughn	LAB SAMPLE ID	:3410.01
PROJECT NAME	:242 & Hwy 69	SAMPLE MATRIX	:Soil
PROJECT NUMBER	:	DATE SAMPLED	:07/14/2009
METHOD REFERENCE	:TX1005	DATE RECEIVED	:07/14/2009
INSTRUMENT ID	:A5890	DATE ANALYZED	:07/14/2009
INSTRUMENT FILE	:A10831	TIME ANALYZED	:13:33
EXTRACTION AMOUNT	:10 g	ANALYST	:SK
DILUTION FACTOR	:1		

Hydrocarbon Range	Units	Quantitation Limit	Results	Qualifier
C ₆ - C ₁₂	mg/Kg	20.0	362	
>C ₁₂ - C ₂₈	mg/Kg	2000	49200	D
>C ₂₈ - C ₃₅	mg/Kg	5000	101000	D

QUALITY CONTROL DATA				
Surrogate Compounds	Spike Added	% Recovery	QC Limits	Qualifier
1-Chlorooctane	250 mg/Kg	114	70-130	
O-Terphenyl	250 mg/Kg	113	70-130	



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Laboratory Analysis Report

Quality Control Data - TCLP Blank
Volatiles - 8W846/8260B

TCLP VOLATILE ORGANIC COMPOUNDS - QUALITY CONTROL REPORT

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	: VBLK48
PROJECT NAME	: ---	SAMPLE MATRIX	: Water
PROJECT NUMBER	: ---	DATE SAMPLED	: ---
METHOD REFERENCE	: SW846-8260B	DATE RECEIVED	: ---
INSTRUMENT ID	: A5973	DATE ANALYZED	: 07/26/2009
INSTRUMENT FILE	: A22050	TIME ANALYZED	: 23:45
SAMPLE VOLUME	: 10 mL	ANALYST	: SB
DILUTION FACTOR	: 6		

Analyte	Units	Quantitation Limit	Results	Qualifier
Benzene	mg/L	0.005	ND	

QUALITY CONTROL DATA

Surrogate Compound	Spike Added	% Recovery	QC Limits	Qualifier
Dibromofluoromethane	0.010 mg/L	111	56-153	
1,2-Dichloroethane-d4	0.010 mg/L	104	64-138	
Toluene-d8	0.010 mg/L	103	68-140	
4-Bromofluorobenzene	0.010 mg/L	72	70-137	



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Ph: 281.367.0065 Fax: 281.367.5772

Laboratory Analysis Report

Quality Control Data - TCLP LCS/D

Volatiles - SW846/8260B

TCLP VOLATILE ORGANIC COMPOUNDS - QUALITY CONTROL REPORT

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	: VLCS48
PROJECT NAME	: ---	SAMPLE MATRIX	: Water
PROJECT NUMBER	: ---	DATE SAMPLED	: ---
METHOD REFERENCE	: SW846-8260B	DATE RECEIVED	: ---
INSTRUMENT ID	: A5973	DATE ANALYZED	: 07/27/2009
INSTRUMENT FILE	: A22051	TIME ANALYZED	: 00:16
SAMPLE VOLUME	: 10 mL	ANALYST	: SB
DILUTION FACTOR	: 1		

Analyte	Units	LCS Spike Added	LCS Result	LCS %Recovery	QC Limits LCS/D	Qualifier
Benzene	mg/L	0.01	0.0097	97	70 - 131	

QUALITY CONTROL DATA

Surrogate Compound	Spike Added	% Recovery	QC Limits	Qualifier
Dibromofluoromethane	0.010 mg/L	103	56-153	
1,2-Dichloromethane-d4	0.010 mg/L	98	64-138	
Toluene-d8	0.010 mg/L	97	68-140	
4-Bromofluorobenzene	0.010 mg/L	89	70-137	



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Laboratory Analysis Report

Quality Control Data - TCLP Blank
TCLP Metals 6010B/7470

TCLP METALS - QUALITY CONTROL REPORT

CLIENT NAME : ---
PROJECT MANAGER : ---
PROJECT NAME : ---
PROJECT NUMBER : ---
METHOD REFERENCE : SW846-6010B, 7470

CLIENT SAMPLE ID : ---
LAB SAMPLE ID : ICPB138
SAMPLE MATRIX : Water
ANALYST : RA
DATE SAMPLED : ---
DATE RECEIVED : ---

Analyte	Date Prepared	Date Analyzed	DF	Quantitation Limit	Results	Units	Qualifier
Antimony	7/22/09	7/22/09	1	0.50	ND	mg/L	
Arsenic	7/22/09	7/22/09	1	0.50	ND	mg/L	
Barium	7/22/09	7/22/09	1	1.00	ND	mg/L	
Beryllium	7/22/09	7/22/09	1	0.25	ND	mg/L	
Cadmium	7/22/09	7/22/09	1	0.05	ND	mg/L	
Chromium	7/22/09	7/22/09	1	0.25	ND	mg/L	
Lead	7/22/09	7/22/09	1	0.25	ND	mg/L	
Mercury	7/22/09	7/22/09	1	0.05	ND	mg/L	
Nickel	7/22/09	7/22/09	1	0.25	ND	mg/L	
Selenium	7/22/09	7/22/09	1	0.25	ND	mg/L	
Silver	7/22/09	7/22/09	1	0.50	ND	mg/L	



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Laboratory Analysis Report

Quality Control Data - TCLP LCS/D
TCLP Metals 6010B/7470

TCLP METALS - QUALITY CONTROL REPORT

CLIENT NAME	:	---	CLIENT SAMPLE ID	:	---
PROJECT MANAGER	:	---	LAB SAMPLE ID	:	ICPL138
PROJECT NAME	:	---	SAMPLE MATRIX	:	Water
PROJECT NUMBER	:	---	ANALYST	:	RA
METHOD REFERENCE	:	SW846-6010B, 7470	DATE SAMPLED	:	---
			DATE RECEIVED	:	---
			DATE ANALYZED	:	07/22/2009

Analyte	Units	LCS Spike Amount	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	QC Limits LCS/D	RPD	RPD QC Limits	Qualifier
Antimony	mg/L	1.00	1.12	--	112	--	75 - 125	--	25	
Arsenic	mg/L	1.00	1.11	--	111	--	75 - 125	--	25	
Barium	mg/L	1.00	1.14	--	114	--	75 - 125	--	25	
Beryllium	mg/L	1.00	1.08	--	108	--	75 - 125	--	25	
Cadmium	mg/L	1.00	1.08	--	108	--	75 - 125	--	25	
Chromium	mg/L	1.00	1.08	--	108	--	75 - 125	--	25	
Lead	mg/L	1.00	1.15	--	115	--	75 - 125	--	25	
Mercury	mg/L	0.005	0.0041	--	83	--	75 - 125	--	25	
Nickel	mg/L	1.00	1.09	--	109	--	75 - 125	--	25	
Selenium	mg/L	1.00	1.06	--	106	--	75 - 125	--	25	
Silver	mg/L	0.50	0.590	--	118	--	75 - 125	--	25	



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Laboratory Analysis Report

Quality Control Data - Soil Blank

TPH (TX1005)

TOTAL PETROLEUM HYDROCARBONS (TX1005) - QUALITY CONTROL REPORT			
CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	:TPHBLK79
PROJECT NAME	: ---	SAMPLE MATRIX	:Soil
PROJECT NUMBER	: ---	DATE SAMPLED	: ---
METHOD REFERENCE	:TX1005	DATE RECEIVED	: ---
INSTRUMENT ID	:A5890	DATE ANALYZED	:07/14/2009
INSTRUMENT FILE	:A10832	TIME ANALYZED	:14:24
EXTRACTION AMOUNT	:10 g	ANALYST	:SK
DILUTION FACTOR	:1		

Hydrocarbon Range	Units	Quantitation Limit	Results	Qualifier
C ₆ - C ₁₂	mg/Kg	20.0	ND	
>C ₁₂ - C ₂₈	mg/Kg	20.0	ND	
>C ₂₈ - C ₃₅	mg/Kg	50.0	ND	

QUALITY CONTROL DATA				
Surrogate Compounds	Spike Added	% Recovery	QC Limits	Qualifier
1-Chlorooctane	250 mg/Kg	121	70-130	
O-Terphenyl	250 mg/Kg	130	70-130	



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Laboratory Analysis Report

Quality Control Data - Soil LCS/D

TPH(TX1006)

TOTAL PETROLEUM HYDROCARBONS (TX1005) - QUALITY CONTROL REPORT

CLIENT NAME	: ---	CLIENT SAMPLE ID	: ---
PROJECT MANAGER	: ---	LAB SAMPLE ID	: TPHLCS79
PROJECT NAME	: ---	SAMPLE MATRIX	: Soil
PROJECT NUMBER	: ---	DATE SAMPLED	: ---
METHOD REFERENCE	: TX1005	DATE RECEIVED	: ---
INSTRUMENT ID	: A5890	DATE ANALYZED	: 07/14/2009
INSTRUMENT FILE	: A10833	TIME ANALYZED	: 15:14
EXTRACTION AMOUNT	: 10 g	ANALYST	: SK
DILUTION FACTOR	: 1		

Hydrocarbon Range	Units	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Result	LCSD % Recovery	QC Limits LCS/D	RPD %	Qualifier
C ₆ - C ₁₂	mg/Kg	250	255	102	---	---	75-125	---	
>C ₁₂ - C ₂₈	mg/Kg	250	267	107	---	---	75-125	---	
>C ₂₈ - C ₃₅	mg/Kg	500	521	104	---	---	75-125	---	

QUALITY CONTROL DATA

Surrogate Compounds	Spike Added	% Recovery	QC Limits	Qualifier
1-Chlorooctane	250 mg/Kg	128	70-130	
O-Terphenyl	250 mg/Kg	128	70-130	



KAP Technologies, Inc.

9391 Grogans Mill Rd., Suite A-2

The Woodlands, TX 77380

Sample Receipt Checklist

KAP Episode #: 3410	Date Received: 7-14-09	Time Received: 11:42
Client Name: CKG	Project Name: 242 & Hwy 59	Project #: —
Samples Delivered by: Client	Temperature: —	Total number of coolers: —

	Evaluation of Samples	Yes	No
1	Cooler(s) received with custody seal.		✓
2	Sample(s) received on ice.		✓
3	Sample(s) received with chain-of-custody.	✓	
4	Chain-of custody signed.	✓	
5	Sample(s) received with signed sample custody seal.		✓
6	Sample containers arrived intact. (If no, please describe below)	✓	
7	Matrix: Water <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Sludge <input type="checkbox"/> Solid <input type="checkbox"/> Vapor <input type="checkbox"/> Badge <input type="checkbox"/> Other: <input type="checkbox"/>		
8	Sample(s) received in appropriate containers.	✓	
9	Sample(s) received with proper preservatives.	✓	
10	All samples were tagged and/or labeled.	✓	
11	Sample ID labels match C-O-C ID's.	✓	
12	Bottle count on C-O-C matches bottles received.	✓	
13	Sample volume received is sufficient for analyses requested.	✓	
14	Sample(s) were received within the required holding time(s).	✓	
15	VOA vials were completely filled.	NA	NA
16	Sample(s) accepted.	✓	
Comments: (Any discrepancies or problems encountered during sample receipt should be noted, including actions taken to resolve them.)			

Received by: **MA Bellows**Check in by: **NICOLE HOGUE**Date: **7-14-09**

KAP TECHNOLOGIES, Inc.
9391 Grogans Mill Rd., Suite A2 The Woodlands, TX 77380

Chain-of-Custody Record
Ph: 281.367.0065 FX: 281.367.6772

Chain-of-Custody
(COC Pg.)

CK 6 Servers 7420 Henea Rd Montgomery TX 77316		Project Number: 242 + Hwy 59	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Non-Rush <input type="checkbox"/> RUSH	3410	1 of 1
Project Manager: Zac McManis		Project POC: Zac	Report Needed By:	E-Mail Report To:	
PH: 281-41-4899 836-7561225					

Remarks:				BTX and/or MTBE	VOCs - M8260	TPH (TX1005)	Metals RCRA-6	Metals RCRA-8+3	PAHs-8270SJM	SVOCs - M8270	COMMENTS	KAP LAB Sample ID:
1	1 site Characterization	7/14/07	1845	✓			✓	✓			TCLP	3410.01
2											1/23 Add TCLP Benzene	
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Relinquished by:	Date: 7/14	Time: 11:42	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:			

☐ Laboratory Pick-up
 ☒ OTC-Delivery From Client
 ☐ FedEx/UPS/TimeStar
 ☐ OTHER

White Yellow - Laboratory Copies
 Pink - Client Copy

M. C. Bell
 7/14/07
 11:42

PROBLEMS WITH SAMPLE SET; Refer to Sample Receipt Log record for Details

EPAH0109000032

CKG SERVICES, LLC.
7420 Honea Egypt RD
Montgomery, Tx 77316

CKG SERVICES

To: Jenny Fax: 713.740.8104
From: Zac McKaughan Date: 7/27/09
Re: Profile LAB Pages: 20
CC: for L&E Waste Management

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

Notes:

Thank you, we Never forget that we work for you!

zacm@ckg-services.com
2

3429

Polytex Fibers Corp



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/21/2009

Dear Graciela Curiel

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3429

Expiration Date 7/20/2011

Generator: Polytex Fibers Corp
Address: 9333 Baythorne Drive
Houston, TX 77041

Waste Information

Name of Waste: Used oil

TCEQ Waste Code #: RECYCLE

Container Type:

Detailed Description of Process Generating Waste:

Removal of used oil from equipment

Color: dark

Odor: hydrocarbon

pH: Na

Physical State:

Incompatibilities: None Known

Safety Related Data/Special Handling:

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Houston
Recycle DC/LS**CES Environmental Services, Inc.**

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950481 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: Polytex Fibers Corp
 Address: 9333 Baythorne Drive
 City: Houston State: TX Zip: 77041
 Contact: Graciela Curial Title: Purchasing Agent
 Phone Number: 713-690-9055 Fax Number: 713-939-3120
 24/hr Phone Number: 800-628-0034
 US EPA ID No: TXCESQG
 State ID No: CESQG SIC Code: NA

SECTION 2: Billing Information - ☐ Same as Above

Company: Polytex Fibers Corp
 Address: 9341 Baythorne Drive
 City: Houston State: TX Zip: 77041
 Contact: _____ Title: _____
 Phone Number: 713-690-9055 Fax Number: 713-939-3120

SECTION 3: General Description of the Waste

Name of Waste: Used Oil
 Detailed Description of Process Generating Waste: _____

removal of used oil from equipment

Physical State: ☒ Liquid ☐ Solid ☐ Sludge ☐ Powder ☐ Filter Cake ☐ Combination
 Color: dark Odor: hydrocarbon

Specific Gravity (water=1): 0.9 Density: 8.3 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No
 Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4853	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☒ Yearly ☐ One-Time

Quantity: 10

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☐ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is It: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(a) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number:

RECYCLE

Proper US DOT Shipping Name: Non RCRA Non DOT Regulated Material

Class:	NA	UN/NA:	NA	PG :	NA	RQ:	NA
--------	----	--------	----	------	----	-----	----

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
<150		NA		NA <u>mg/l</u>		NA <u>mg/l</u>		0-1 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
>1500	mg/l	NA	mg/l	NA	mg/l	NA	mg/l	NA	mg/l

SECTION 4: Physical and Chemical Data

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. CES lab eval

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):
None known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: _____

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 7-20-09

Approval Number: _____

☒ Approved

☐ Rejected



**CES Environmental
Services, Inc.**

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$35.00/drum plus freight

2. Contamination Limit (maximum limit before surcharges apply):

NA

3. Surcharge Pricing:

NA

4. Special Testing Requirements:

Chlordect, black oil compatibility , *flash*

5. Treatment and Handling Protocol:

Mix with black oils

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

NA

8. Management for Product Recovered/Recycled (if applicable)

NA



4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Dana Carter
Cc: Matt Bowman, Prabhaker, Clint Hopkins, Sam Brown

Date: 7/15/09

From: Miles Root

Lab Memo: 09-139

Subject: **Polytex Fibers Evaluation 0709-34**

A sample of black oil from Polytex Fibers, Baythorne Dr., has been evaluated for potential use in our black oil for sales at CES. This sample is evaluation 0709-34 and represents a potential of 9-10 drums of material annually. Overall, this oil looks acceptable for blending with our black oil and its acquisition is recommended.

This oil is black in appearance and contains only a trace amount of particulates that can be centrifuged out. It has a typical oil odor, an API gravity of 28, no water, and blends just fine with our typical black oil. The chlor-d-tect is an acceptable 700 ppm. This oil is recommended for acquisition and it may be blended and sold with our other black oil without issues.

The table below summarizes the analytical testing.

Polytex Fibers	
Evaluation 0709-34	
Appearance	black
Solids, vol%	trace
Odor	typical oil odor
API gravity	28
Water, %	0
Chlor-d-tect, ppm	700
Black Oil Blendability	Okay

3430

Santon



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/21/2009

Dear Mohammed Dekiouk

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3430

Expiration Date 7/21/2011

Generator: Sartomer

Address: 17335 wallisville Rd
Houston, TX 77049

Waste Information

Name of Waste: Non-hazardous waste water

TCEQ Waste Code #: 00401101

Container Type:

Detailed Description of Process Generating Waste:

Neutralization of acidic water with sodium hydroxide, evaporation, and crystallization.
Process waste water from the manufacturing of resins

Color: Amber **Odor:** Slight Hydrocarbon **pH:** 4-11.5

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



12
Houston DB/MM

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: Sartomer Company, Inc.
Address: 17335 Wallisville Road
City: Houston State: TX Zip: 77049
Contact: Mohammed Dekiouk Title: Manufacturing Manager
Phone Number: 281-457-6757 Fax Number: 281-457-6910
24/hr Phone Number: 281-457-6910
US EPA ID No: TXD981901713
State ID No: _____ SIC Code: _____

SECTION 2: Billing Information - ☒ Same as Above

Company: _____
Address: _____
City: _____ State: _____ Zip: _____
Contact: _____ Title: _____
Phone Number: _____ Fax Number: _____

SECTION 3: General Description of the Waste

Name of Waste: Non-Hazardous Waste Water
Detailed Description of Process Generating Waste:
Neutralization of acidic water with sodium hydroxide, evaporation, and crystallization. Process waste water from the manufacturing of resins.

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination
Color: Amber Odor: Slight Hydrocarbon

Specific Gravity (water=1): 1-1.1 Density: 8.8 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Frequency: ☒ Weekly ☐ Monthly ☐ Yearly ☐ One-Time

Quantity: 2-3 loads/week

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Na

☒ Yes ☒ No

Na

☐ Yes ☒ No

Na

00401101

Non-RCRA, Non DOT Regulated Waste Water

Na PG : Na RQ: Na

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>200		4-11.5		0 <u>mg/l</u>		0 <u>mg/l</u>		0-1 <u>%</u>	
Oil & Grease		TOC		Zinc		Copper		Nickel	
<1500	<u>mg/l</u>	<5000	<u>mg/l</u>	0	<u>mg/l</u>	0	<u>mg/l</u>	0	<u>mg/l</u>

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. Analysis (CES), Lab analysis

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	<u>X CES Analysis</u>
TCLP Volatiles:	<u>X None in Process</u>
TCLP Semi-Volatiles:	<u>X None in Process</u>
Reactivity:	<u>X</u>
Corrosivity:	<u>X</u>
Ignitability:	<u>X</u>

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☒ YES

☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☒ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☒ Organics Subcategory

SECTION 10: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The Information contained herein is based on ☒ generator knowledge and/or ☒ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: _____

Printed Name/Title: _____

Mohammed Dekiok

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: _____

Approval Number: _____

☒ Approved

☐ Rejected



4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Dan Bowman, Morgan McCarley
Cc: Matt Bowman, Prabhaker, Joe Camp, Clint Hopkins

Date: 4/02/09

From: Miles Root

Lab Memo: 09-065

Subject: **Sartomer Evaluation 0409-02**

A sample of waste water from Sartomer has been tested for potential processing at CES. This sample is evaluation 0409-02 and is waste water generated from a resin process. The potential volume of this stream is two loads per week. Overall, this water can be processed at CES with no issues, other than poor odor.

This waste water is clear in appearance with an objectionable but tolerable odor. It does not flash below 140 deg F and has a pH of 9. There are no solids. The water treats easily and produces a nice floc that separates out cleanly. The phenols are 2 ppm. TOC is a low 2638 ppm. The metals are all at acceptable levels.

This water looks good for processing at CES. While the odor of this material is objectionable, as I said above, it is tolerable. The table below summarizes the analytical testing.

Sartomer	
Evaluation 0409-02	
Flash Point, deg F	>140
Solids, vol%	0
Odor	Somewhat Objectionable
pH	9
Phenols, ppm	2
TOC, mg/L	2,638
Oil, vol%	0
Treatability	Okay
Metals, ppm	
Ni	0.108
Zn	0.103
Cu	0.180
Cd	0.082
Cr	0.000



CES Environmental
Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

Need
Pricing

1. Base Pricing (including freight):

1085 gal / 25000 TOC
Transp 225 / load

2. Contamination Limit (maximum limit before surcharges apply):

Flash < 100°F

3. Surcharge Pricing:

Call Sales Person Dan Bowman 713-854-6150

4. Special Testing Requirements:

TOC, Flash, metals, PH, Phenol

5. Treatment and Handling Protocol:

Waste Water Treatment

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☒ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

N/A

8. Management for Product Recovered/Recycled (if applicable)

N/A

3431

MIC



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/22/2009

Dear Bert Atkinson or Jim White

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3431

Expiration Date 7/22/2011

Generator: MIC

Address: 1801 Industrial
Brenham, TX 77833

Waste Information

Name of Waste: Oily Water

TCEQ Waste Code #: 00122051

Container Type:

Detailed Description of Process Generating Waste:

Washing of machine parts

Color: Brown to black

Odor: Hydrocarbon

pH: 6-8

Physical State:

Incompatibilities: None Known

Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000053

3435

Joe Camp
Jenny

OL
Houston



<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-146C U.S. EPA ID Number: TXD008950451 ISWR Number: 3090C TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-146C U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: MIC
 Address: 1801 Industrial
 City: Brenham State: TX Zip: 77833
 Contact: Ricky Abernathy Title: EH&S Engineer
 Phone Number: 979-337-7071 Fax Number: 979-830-0402
 24/hr Phone Number: 979-525-7504
 U.S. EPA ID No: _____
 State ID No: _____ SIC Code: 86944

SECTION 2: Billing Information - ☒ Same as Above

Company: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Contact: _____ Title: _____
 Phone Number: _____ Fax Number: _____

SECTION 3: General Description of the Waste

Name of Waste: Oily Water
 Detailed Description of Process Generating Waste: _____

 Washing of machine parts

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: Brown to black Odor: hydrocarbon

Specific Gravity (water=1): .99 -1 Density: 8.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☒ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☒ Yearly ☐ One-Time

Quantity: 10

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
 Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☒ D009
☐ D010 ☐ D011
 Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

If "Yes", then please list ALL applicable codes:

Class:	N/A	UN/NA:	N/A	PG :	N/A	RQ:	N/A
--------	-----	--------	-----	------	-----	-----	-----

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>150		6-8		BRL <u>mg/l</u>		BRL <u>mg/l</u>		8-15 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
>1500	<u>mg/l</u>	>1500	<u>mg/l</u>	<5	<u>mg/l</u>	<5	<u>mg/l</u>	<5	<u>mg/l</u>

[illegible]

If the handling of this waste requires the use of special protective equipment, please explain.

Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. Lab Memo#09-123, analytical #T0906137

SECTION 7: Incompatibilities

Please list ALL Incompatibilities (if any):

None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCUP Metals: Not Regulated

TCUP Volatiles: Not Regulated

TCUP Semi-Volatiles: Not Regulated

Reactivity: Non-Reactive

Corrosivity: Non-Corrosive

Ignitability: >200

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?
If 'Yes', complete this section.

☐ YES ☒ NO

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10: Additional Instructions

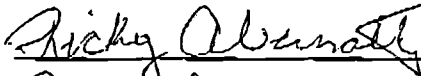
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:



Date:

7/21/09

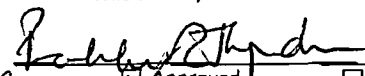
Printed Name/Title:

Ricky Abernathy

EH&S Engineer

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer:



Date:

7-22-09

Approved

☐ Rejected

Approval Number:

3431



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$0.75 / gallon, \$70 / hr transportation + FSC w/ 4 hr min

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Put in Class 1 sludge box to ~~WMA~~ Republic

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

--



**CES Environmental
Services, Inc.**

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Joe Camp
Cc: Matt Bowman, Prabhaker, Clint Hopkins, Sam Brown

Date: 6/19/09

From: Miles Root

Lab Memo: 09-123

Subject: MIC Group Evaluation 0609-28

A sample of oily water from MIC Group has been evaluated for potential processing at CES. This sample is evaluation 0609-28 and is said to contain water, oil and soap. This material represents 500 gallons of material three times per quarter. Overall, the oil from this sample does not pass the chlor-d-tect test, so we cannot handle it here at CES.

This sample by centrifuge contains 50% oil, 10% rag, 8% solids and 32% water. The sample comes as an emulsion but can be broken out with standard heat and acid treat. The water treats easily and forms a nice floc. The phase separated oil has a chlor-d-tect value of over 4000 ppm, which does not even allow for a rebuttal to potentially accept this oil. At the 4000 ppm endpoint this sample was not even close to changing color for an endpoint, so the chlor-d-tect value is much greater than 4000 ppm. Since we cannot receive oil with this level of organic chlorides no further work was performed.

Class 1 Liquids

PIL

Folder

180 l Industrial
Brenham, TX 77833

1

Jennifer Rust

Joe - #?

From: Ricky Abernathy [rabernathy@micgrp.com]
Sent: Wednesday, July 15, 2009 10:43 AM
To: Jennifer Rust
Subject: waste code&lab results
Attachments: T09060137.pdf

New Folder?

P&L?

Profile

Waste code 0012 205 1

Class 1 # .75/gallon

We do have a couple of questions for you also, I will call you tomorrow. If you have any questions let me know

Ricky Abernathy

Environmental, Health & Safety Engineer

MIC Group, Brenham, TX

office (979)-337-7071

cell (979)-525-7504

fax (979)-830 0402

rabernathy@micgrp.com

~~Notes~~

send

Lab
Report

oil, water

~~Costs~~

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ENERGY LABORATORIES, INC. * 415 Graham Rd * College Station, TX 77845
Toll Free 888.690.2218 * 979.690.2217 * FAX 979.690.2045

ANALYTICAL SUMMARY REPORT

July 14, 2009

Ricky Abernathy
MIC Group
1801 Industrial Blvd
Brenham, TX 77833-5236

Workorder No.: T09060137

Quote ID: T1784 - Waste Characterization

Project Name: Sump Tank

Energy Laboratories Inc. received the following 1 sample for MIC Group on 6/29/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
T09060137-001	Sump Tank	06/29/09 11:15	06/29/09	2-Phase	Metals, TCLP Extractable Cyanide, Reactive Mercury, TCLP Flashpoint Total Petroleum Hydrocarbons pH of Liquid Waste Digestion, Total Metals Prep for TNRCC 1005 Water Sulfide, Reactive TCLP Extraction, Non-volatiles

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

cn=Gary Pudge, o=Energy Laboratories, Inc., ou=Branch Manager, email=gpudge@energylab.com, c=US
I am approving this document

Report Approved By: 2009.07.14 12:36:44 -05'00'



LABORATORY ANALYTICAL REPORT

Client: MIC Group
Project: Sump Tank
Lab ID: T09060137-001
Client Sample ID: Sump Tank

Report Date: 07/14/09
Collection Date: 06/29/09 11:15
Date Received: 06/29/09
Matrix: 2-Phase

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Flash Point (Ignitability)	>200	°F		30		SW1010A	07/01/09 14:00 / eli-b1
REACTIVITY							
Sulfide, Reactive	ND	mg/kg		20.0	500	SW846 Ch 7	07/02/09 08:00 / eli-b
Cyanide, Reactive	ND	mg/kg		1.0	250	SW846 Ch 7	07/06/09 12:44 / eli-b1
METALS, TCLP EXTRACTABLE							
Antimony	ND	mg/L		0.5		SW6020	07/06/09 21:51 / eli-b5
Arsenic	ND	mg/L		0.5	5	SW6020	07/06/09 21:51 / eli-b5
Barium	ND	mg/L		10	100	SW6020	07/06/09 21:51 / eli-b5
Beryllium	ND	mg/L		0.1		SW6020	07/06/09 21:51 / eli-b5
Cadmium	ND	mg/L		0.1	1	SW6020	07/06/09 21:51 / eli-b5
Chromium	ND	mg/L		0.5	5	SW6020	07/06/09 21:51 / eli-b5
Lead	ND	mg/L		0.5	5	SW6020	07/06/09 21:51 / eli-b5
Mercury	ND	mg/L		0.02	0.2	SW7470A	07/06/09 10:38 / eli-b1
Nickel	ND	mg/L		0.1		SW6020	07/06/09 21:51 / eli-b5
Selenium	ND	mg/L		0.1	1	SW6020	07/06/09 21:51 / eli-b5
Silver	ND	mg/L		0.5	5	SW6020	07/06/09 21:51 / eli-b5
TOTAL PETROLEUM HYDROCARBONS							
nC6 to nC12	110	mg/L	J	100		TNRCC1005	07/02/09 14:46 / rjh
>nC12 to nC28	6050	mg/L		100		TNRCC1005	07/02/09 14:46 / rjh
>nC28 to nC35	2400	mg/L		100		TNRCC1005	07/02/09 14:46 / rjh
Total Petroleum Hydrocarbons	8560	mg/L		100		TNRCC1005	07/02/09 14:46 / rjh
Surr: o-Terphenyl	0	%REC	O	70-130		TNRCC1005	07/02/09 14:46 / rjh
Surr: Trifluorotoluene	0	%REC	O	70-130		TNRCC1005	07/02/09 14:46 / rjh
-Headspace present in sample container for TPH analysis. Sample not preserved to pH<2.							
PH OF LIQUID WASTE							
pH	8.43	s.u.		0.100		SW9040C	06/30/09 16:30 / eli-b1

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
O - Diluted out.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
J - Estimated value. The analyte was present but less than the reporting limit.



QA/QC Summary Report

Client: MIC Group
Project: Sump Tank

Report Date: 07/14/09
Work Order: T09060137

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020										Batch: B_39893
Sample ID: MB-39893	10 Method Blank					Run: SUB-B132317			07/06/09 20:55	
Antimony		8E-05	mg/L	2E-05						
Arsenic		0.0002	mg/L	2E-05						
Barium		3E-05	mg/L	2E-05						
Beryllium		ND	mg/L	2E-05						
Cadmium		4E-05	mg/L	5E-06						
Chromium		0.0006	mg/L	1E-05						
Lead		ND	mg/L	2E-05						
Nickel		7E-05	mg/L	2E-05						
Selenium		3E-05	mg/L	2E-05						
Silver		3E-05	mg/L	2E-05						
Sample ID: MBS-39893	10 Laboratory Fortified Blank					Run: SUB-B132317			07/06/09 21:02	
Antimony		0.504	mg/L	0.50	101	75	125			
Arsenic		0.504	mg/L	0.50	101	75	125			
Barium		5.36	mg/L	1.0	97	75	125			
Beryllium		0.258	mg/L	0.50	103	75	125			
Cadmium		0.260	mg/L	0.10	104	75	125			
Chromium		0.523	mg/L	0.50	104	75	125			
Lead		0.512	mg/L	0.50	102	75	125			
Nickel		0.532	mg/L	0.50	106	75	125			
Selenium		0.506	mg/L	0.10	101	75	125			
Silver		0.0495	mg/L	0.50	99	75	125			
Sample ID: MBSD-39893	10 Laboratory Fortified Blank Duplicate					Run: SUB-B132317			07/06/09 21:09	
Antimony		0.515	mg/L	0.50	103	75	125	2.3	20	
Arsenic		0.511	mg/L	0.50	102	75	125	1.5	20	
Barium		5.47	mg/L	1.0	99	75	125	1.9	20	
Beryllium		0.263	mg/L	0.50	105	75	125		20	
Cadmium		0.266	mg/L	0.10	106	75	125	2.1	20	
Chromium		0.530	mg/L	0.50	106	75	125	1.2	20	
Lead		0.516	mg/L	0.50	103	75	125	1	20	
Nickel		0.541	mg/L	0.50	108	75	125	1.8	20	
Selenium		0.516	mg/L	0.10	103	75	125	2.1	20	
Silver		0.0517	mg/L	0.50	103	75	125		20	
Sample ID: T09060137-001A	10 Serial Dilution					Run: SUB-B132317			07/06/09 21:58	
Antimony		0.00112	mg/L	0.50		0	0	10		N
Arsenic		0.00549	mg/L	0.50		0	0	10		
Barium		0.133	mg/L	1.0		0	0	10		
Beryllium		ND	mg/L	0.50		0	0	10		
Cadmium		0.000696	mg/L	0.10		0	0	10		N
Chromium		0.00895	mg/L	0.50		0	0	10		
Lead		0.00339	mg/L	0.50		0	0	10		N
Nickel		0.0703	mg/L	0.50		0	0	10		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

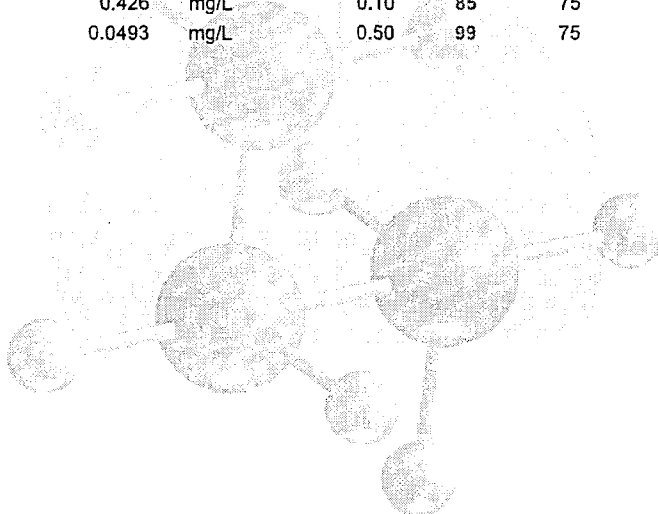


QA/QC Summary Report

Client: MIC Group
Project: Sump Tank

Report Date: 07/14/09
Work Order: T09060137

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020										Batch: B_39893
Sample ID: T09060137-001A	10 Serial Dilution					Run: SUB-B132317				07/06/09 21:58
Selenium		0.000608	mg/L	0.10		0	0	10		N
Silver		ND	mg/L	0.50		0	0	10		
Sample ID: T09060137-001A	10 Sample Matrix Spike					Run: SUB-B132317				07/06/09 22:05
Antimony		0.456	mg/L	0.50	91	75	125			
Arsenic		0.510	mg/L	0.50	101	75	125			
Barium		5.43	mg/L	1.0	96	75	125			
Beryllium		0.248	mg/L	0.50	99	75	125			
Cadmium		0.258	mg/L	0.10	103	75	125			
Chromium		0.529	mg/L	0.50	105	75	125			
Lead		0.513	mg/L	0.50	102	75	125			
Nickel		0.612	mg/L	0.50	109	75	125			
Selenium		0.426	mg/L	0.10	85	75	125			
Silver		0.0493	mg/L	0.50	99	75	125			



Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



QA/QC Summary Report

Client: MIC Group
Project: Sump Tank

Report Date: 07/14/09
Work Order: T09060137

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020										Analytical Run: SUB-B132317
Sample ID: ICSA-ME090423A 10 Interference Check Sample A										07/06/09 17:06
Antimony		0.00265	mg/L	0.0010						
Arsenic		8.67E-05	mg/L	0.0010						
Barium		8.76E-05	mg/L	0.0010						
Beryllium		8.50E-06	mg/L	0.0010						
Cadmium		0.000552	mg/L	0.0010						
Chromium		0.000937	mg/L	0.0010						
Lead		0.000527	mg/L	0.0010						
Nickel		0.000593	mg/L	0.0010						
Selenium		6.64E-05	mg/L	0.0010						
Silver		8.55E-05	mg/L	0.0010						
Sample ID: ICSAB-ME090423A,09 10 Interference Check Sample AB										07/06/09 17:14
Antimony		0.00195	mg/L	0.0010		0	0			
Arsenic		0.00973	mg/L	0.0010	97	70	130			
Barium		7.45E-05	mg/L	0.0010		0	0			
Beryllium		7.50E-06	mg/L	0.0010		0	0			
Cadmium		0.00965	mg/L	0.0010	96	70	130			
Chromium		0.0216	mg/L	0.0010	108	70	130			
Lead		0.000495	mg/L	0.0010		0	0			
Nickel		0.0207	mg/L	0.0010	103	70	130			
Selenium		0.00929	mg/L	0.0010	93	70	130			
Silver		0.0179	mg/L	0.0010	90	70	130			
Sample ID: QCS-090602A,090401 10 Initial Calibration Verification Standard										07/06/09 18:16
Antimony		0.0467	mg/L	0.0010	93	90	110			
Arsenic		0.0483	mg/L	0.0010	97	90	110			
Barium		0.0495	mg/L	0.0010	99	90	110			
Beryllium		0.0239	mg/L	0.0010	95	90	110			
Cadmium		0.0253	mg/L	0.0010	101	90	110			
Chromium		0.0494	mg/L	0.0010	99	90	110			
Lead		0.0492	mg/L	0.0010	98	90	110			
Nickel		0.0502	mg/L	0.0010	100	90	110			
Selenium		0.0475	mg/L	0.0010	95	90	110			
Silver		0.0265	mg/L	0.0010	106	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MIC Group
Project: Sump Tank

Report Date: 07/14/09
Work Order: T09060137

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW7470A										Batch: B_39867
Sample ID: MB-39867		Method Blank					Run: SUB-B132263			07/06/09 10:30
Mercury		ND	mg/L	0.0005						
Sample ID: MBMS-39867		Sample Matrix Spike					Run: SUB-B132263			07/06/09 10:34
Mercury		0.010	mg/L	0.020	104	75	125			
Sample ID: MBMSD-39867		Sample Matrix Spike Duplicate					Run: SUB-B132263			07/06/09 10:36
Mercury		0.0098	mg/L	0.020	98	75	125			20
Sample ID: T09060137-001A		Serial Dilution					Run: SUB-B132263			07/06/09 10:41
Mercury		ND	mg/L	0.020		0	0			20 N
Sample ID: T09060137-001A		Sample Matrix Spike					Run: SUB-B132263			07/06/09 10:43
Mercury		0.010	mg/L	0.020	100	75	125			
Sample ID: T09060137-001A		Sample Matrix Spike Duplicate					Run: SUB-B132263			07/06/09 10:45
Mercury		0.0098	mg/L	0.020	98	75	125			20
Method: SW7470A										Analytical Run: SUB-B132263
Sample ID: QCS		Initial Calibration Verification Standard								07/06/09 10:18
Mercury		0.0021	mg/L	0.020	107	90	110			
Method: SW846 Ch 7										Batch: B_39863
Sample ID: MB-39863		Method Blank					Run: SUB-B132296			07/06/09 12:40
Cyanide, Reactive		ND	mg/kg	0.05						
Method: SW846 Ch 7										Batch: B_R132182
Sample ID: MB-R132182		Method Blank					Run: SUB-B132182			07/02/09 08:00
Sulfide, Reactive		ND	mg/kg	10						
Sample ID: LCS-R132182		Laboratory Control Sample					Run: SUB-B132182			07/02/09 08:00
Sulfide, Reactive		20.0	mg/kg	20	69	50	150			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



QA/QC Summary Report

Client: MIC Group
Project: Sump Tank

Report Date: 07/14/09
Work Order: T09060137

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: TNRCC1005										Analytical Run: GCFID_1_090702A
Sample ID: CCV_0701HPT03r-W	3	Continuing Calibration Verification Standard								07/02/09 10:37
Total Petroleum Hydrocarbons		10.6	mg/L	1.1	92	75	125			
Surr: o-Terphenyl				1.1	91	70	130			
Surr: Trifluorotoluene				1.1	98	70	130			
Method: TNRCC1005										Batch: 9499
Sample ID: MB-9499	6	Method Blank								Run: GCFID_1_090702A 07/02/09 11:12
nC6 to nC12		ND	mg/L	1.1						
>nC12 to nC28		ND	mg/L	1.1						
>nC28 to nC35		ND	mg/L	1.1						
Total Petroleum Hydrocarbons		ND	mg/L	1.1						
Surr: o-Terphenyl				1.1	94	70	130			
Surr: Trifluorotoluene				1.1	100	70	130			
Sample ID: LCS-9499	3	Laboratory Control Sample								Run: GCFID_1_090702A 07/02/09 11:34
Total Petroleum Hydrocarbons		54.7	mg/L	1.1	96	75	125			
Surr: o-Terphenyl				1.1	98	70	130			
Surr: Trifluorotoluene				1.1	101	70	130			
Sample ID: LCSD-9499	3	Laboratory Control Sample Duplicate								Run: GCFID_1_090702A 07/02/09 11:55
Total Petroleum Hydrocarbons		54.3	mg/L	1.1	95	75	125	0.8	20	
Surr: o-Terphenyl				1.1	96	70	130	0	20	
Surr: Trifluorotoluene				1.1	99	70	130	0	20	
Sample ID: T09060109-001BMS	3	Sample Matrix Spike								Run: GCFID_1_090702A 07/02/09 12:38
Total Petroleum Hydrocarbons		58.8	mg/L	1.1	100	75	125			
Surr: o-Terphenyl				1.1	102	70	130			
Surr: Trifluorotoluene				1.1	104	70	130			
Sample ID: T09060109-001BMSD	3	Sample Matrix Spike Duplicate								Run: GCFID_1_090702A 07/02/09 12:59
Total Petroleum Hydrocarbons		58.1	mg/L	1.1	98	75	125	1.2	20	
Surr: o-Terphenyl				1.1	101	70	130	0	20	
Surr: Trifluorotoluene				1.1	103	70	130	0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Energy Laboratories Inc

Workorder Receipt Checklist



T09060137

MIC Group

Login completed by: Sarah A. Mims

Date and Time Received: 6/29/2009 12:45 PM

Reviewed by: BL2000\treed

Received by: trr

Reviewed Date: 7/2/2009 8:49:04 AM

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	25.9°C On Ice/From Field		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Contact and Corrective Action Comments:

pH of preserved fractions acceptable. VOA vials contained significant amount of headspace. Receipt temperature checked with IR2. SAM 06/30/09 9:13

Proceed with analysis per Ricky Abernathy. SAM 07/02/09 8:31



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: MIC GROUP			Project Name, PWS, Permit, Etc. SUMP Tank			Sample Origin State: TX			EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>											
Report Mail Address: 1801 Industrial Blvd			Contact Name: Ricky Abernathy			Phone/Fax: (972) 337-7071			Email: rabernathy@micgrp.com			Sampler: (Please Print) Ricky Abernathy								
Invoice Address: 1801 Industrial Blvd			Invoice Contact & Phone:						Purchase Order:			Quote/Bottle Order: 3335								
Special Report/Formats – ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____ <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC			Number of Containers Sample Type: AWS VBO Air Water Soils/Solids Vegetation Bioassay Other			ANALYSIS REQUESTED						Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page Comments: RUSH			Shipped by: Hand					
						SEE ATTACHED Normal Turnaround (TAT)									Receipt Temp 25.9 °C			Cooler ID(s):		
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)			Collection Date									Collection Time			MATRIX			On Ice: <input checked="" type="radio"/> Yes <input type="radio"/> No		
1 SUMP Tank			6/29/09			11:15AM									Bottles/Coolers B C					
2															Intact Y N					
3															Signature Y N					
4															Match					
5																				
6																				
7																				
8																				
9																				
10																				
Custody Record MUST be Signed			Relinquished by (print): Ricky Abernathy			Date/Time: 6/29/09 12:45			Signature: Ricky Abernathy			Received by (print):			Date/Time:			Signature:		
			Relinquished by (print):			Date/Time:			Signature:			Received by (print):			Date/Time:			Signature:		
			Sample Disposal:			Return to Client:			Lab Disposal:			Received by Laboratory: Turner			Date/Time: 6/29/09 12:45			Signature: Turner		

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested.

This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

3432

Bioselect Fuels Inc



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/23/2009

Dear Nelson Fetgatter

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3432

Expiration Date 7/23/2011

Generator: Bioselect Fuels, Inc

Address: 4800 Old Port Industrial Rd
Galveston, TX

Waste Information

Name of Waste: Absorbent & Debris

TCEQ Waste Code #: 00121921

Container Type: 25 yd. box

Detailed Description of Process Generating Waste:

Used absorbent from cleaning up biodiesel on the ground

Color: Brownish

Odor: Mild

pH: Na

Physical State:

Incompatibilities: Na

Safety Related Data/Special Handling:

PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

**CES Environmental
Services, Inc.**

#3428

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
<http://www.cesenvironmental.com>
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

IS
Houston**SECTION 1: Generator Information**

Company: BioSelect (Galveston Bay BioDiesel)
Address: 4828 Old Port Industrial Road
City, State, Zip: Galveston, Texas 77554
Contact: Steve Sams Title: Auth. Broker For Generator
Phone No: 281-838-3400 Fax No: 281-424-7748
24/hr Phone: 281-838-3400
U.S. EPA I.D. No: TXR000079137
State I.D. 88510 SIC Code:

SECTION 2: Billing Information – ☐ Same as Above

Company: Phoenix Pollution Control & Environmental Services, Inc.
Address: 4808 Fairmont Parkway #274
City, State, Zip: Pasadena, Texas 77505
Contact: Connie Fetgatter Title: Accounting
Phone No: 281-838-3400 Fax No: 281-424-7748

SECTION 3: General Description of the WasteName of Waste: Absorbent & DebrisDetailed Description of Process Generating Waste: Used absorbent from cleaning up biodiesel on the ground.

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: Brownish Odor: Mild

Specific Gravity (water=1): N/A Density: N/A lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)
Container Size: 25 Yd. Box

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 2 Other:
Texas State Waste Code No: 00121921
Proper U.S. DOT Shipping Name: Absorbent & Debris

Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point N/A	pH N/A	Reactive Sulfides N/Amg/l	Reactive Cyanides N/Amg/l	Solids 100%
Oil&Grease N/Amg/l	TOC N/Amg/l	Zinc N/Amg/l	Copper N/Amg/l	Nickel N/Amg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The waste consists of the following materials		Ranges are acceptable	or %
Absorbent			80%
Debris			20%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

N/A

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

N/A

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ☒ X
TCLP Volatiles: ☒ X
TCLP Semi-Volatiles: ☒ X
Reactivity: ☒ X
Corrosivity: ☒ X
Ignitability: ☒ X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: 07/14/09

Printed Name/Title: Steve Sams / Auth. Broker For Generator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert A. Sams

Additional Information: _____

Date: 7-23-2009

Approved

Rejected

Approval Number: 3428

3432

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☒ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$165 / yd

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Class 1 solids

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

--



PHOENIX

POLLUTION CONTROL & ENVIRONMENTAL SERVICES, INC.

Fax

To: Morgan

From: Steve

Fax: 713-748-8664

Pages: 7

Phone:

Date: 07/14/09

Re: Absorbent Profile

CC:

☒ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

Morgan,

Still waiting on the waste code for this profile. Would like to bring this waste stream into your facility Thursday if possible.

Thanks,

Steve

*720 Independence Parkway North Baytown Tx. 77520 *Office: 281-838-3400* Fax: 281-424-7748*

3433

TT Barge



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/17/2009

Dear Accounts Payable- Donna Landry

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3433

Expiration Date 7/17/2011

Generator: T.T. Barge (Mile 183)

Address: 7324 Hwy. 405
Donaldsonville, LA 70346

Waste Information

Name of Waste: Barge cleaning contact water

TCEQ Waste Code #: OUTS101H

Container Type:

Detailed Description of Process Generating Waste:

Cleaning of barges

Color: Varies

Odor: Non

pH: 4-10

Physical State:

Incompatibilities: None unknown

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



Hazardous
Houston

DC/LS

~~Need BTEX & LDR paper~~
~~with & approval~~

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: T.T. Barge Mile 183
Address: 7324 Highway 405
City: Donaldsonville State: LA Zip: 70346
Contact: Chuck Metzler Title: E/S
Phone Number: 225.473.8222 Fax Number: 225-473-2199
24/hr Phone Number: 800-969-8860
US EPA ID No: LAD980870794
State ID No: D0022 SIC Code: NA

SECTION 2: Billing Information - ☐ Same as Above

Company: T.T. Barge Attn: Accounts Payable
Address: 19368 Hwy 36
City: Convington State: LA Zip: 70433
Contact: Donna Landry Title:
Phone Number: 225-473-8222 Fax Number: 225-473-2199

SECTION 3: General Description of the Waste

Name of Waste: Barge cleaning contact water

Detailed Description of Process Generating Waste:

cleaning of barges

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: varies Odor: none

Specific Gravity (water=1): 1 Density: 8.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHA? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Frequency: ☒ Weekly ☐ Monthly ☐ Yearly ☐ One-Time

Quantity: 3

☒ Yes ☐ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number: OUTS101H

Proper US DOT Shipping Name:		Hazardous Waste Liquid, n.o.s.			
Class:	9 UN/NA:	NA3082	PG :	III	RQ: NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>150		4-10		NA <u>mg/l</u>		NA <u>mg/l</u>		0-2 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
<1500	<u>mg/l</u>	1500	<u>mg/l</u>	0.002	<u>mg/l</u>	0.005	<u>mg/l</u>	0	<u>mg/l</u>

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. CES Evaluation

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	<u>X</u>
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	<u>X</u>
Corrosivity:	<u>X</u>
Ignitability:	<u>X</u>

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☒ Rinse/wash waters from petroleum sources

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CES ENVIROMENTAL

7137488664

P.005

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
- Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L
- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
- ☐ Metals Subcategory
 - ☒ Oils Subcategory
 - ☐ Organics Subcategory

SECTION 10: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: _____

Printed Name/Title: _____

E/S

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: _____

Approval Number: _____

☒ Approved☐ Rejected

3433

JUL-16-2009 15:12

CES ENVIROMENTAL

7137400664 P.002



LDR Notifications/Certifications

1. Generator Information		2. Receiving Facility Information	
Name:	TT Barge Mite 183	Name:	CES Environmental Services, Inc.
Address:	7324 Highway 405 Donaldsonville, LA 70346	Address:	4904 Griggs Road Houston, TX 77021
EPA ID No.:	IAD980870794	EPA ID No.:	TXD008350461
Manifest No.:			

3. Waste Description at Point of Generation					
Line Item	Waste Description	Hazardous Waste Codes	LDR Subcategory	WW / NWW	Underlying Hazardous Constituents (268.2(i))
1	Barge Cleaning Contact Water	D018			
2					
3					
4					
5					

4. Waste Disposition				
Line Item	Subtitle C Exclusion Subsequent to Point of Generation (if applicable)	Current Disposition of Waste	268.45, Table 1 Technology used to treat debris (if applicable)	Date Shipped
1				
2				
3				
4				
5				

5. Was the waste hazardous at the point of generation but subsequently became excluded from the definition of hazardous waste or exempt from Subtitle C regulation (including characteristic wastes managed in wastewater treatment systems discharging under the CWA)?
☐ Yes ☒ No (if yes, this constitutes the 268.7(a)(7) one-time notification.)

6. Waste the waste characteristic at the point of generation, treated onsite to remove the characteristic, and treatment residues then shipped to a Subtitle D land disposal facility? ☐ Yes ☒ No (if yes, complete Certification 1 or 2.)

7. Was the waste "debris" that was hazardous at the point of generation but subsequently became excluded from the definition of hazardous waste under 261.3(f)(1) by treating it using an extraction or destruction technology in 268.45, Table 1? ☐ Yes ☒ No (if yes, complete Certification 3.)

8. Was the waste "debris" that was hazardous at the point of generation but subsequently became excluded from the definition of hazardous waste under 261.3(f)(2) by receiving a "no-longer-contains" determination from EPA or the authorized state? ☐ Yes ☒ No (if yes, this constitutes the 268.7(d)(1) one-time notification.)

9. Is the waste residue from treating K061, K062 and/or F006 wastes in high-temperature metals recovery (HTMR) units that 1) meets the generic exclusion levels in 261.3(c)(2)(ii)(C), 2) does not exhibit any characteristics, and 3) is shipped to a Subtitle D land disposal facility? ☐ Yes ☒ No (if yes, complete Certification 4.)

10. <input type="checkbox"/> Waste that has been treated to remove a characteristic and meets underlying hazardous constituents standards. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristics and that underlying hazardous constituents, as defined in 268.2(i) have been treated on-site to meet the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.	Applies to Items: Reference: 268.7(b)(4)(v) and 268.9(d)
--	--

11. <input type="checkbox"/> Waste that has been treated to remove a characteristic but does not meet underlying hazardous constituents standards. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.	Applies to Items: Reference: 268.7(b)(4)(v) and 268.9(d)
---	--

12. <input type="checkbox"/> Debris that has been treated to meet the alternative treatment standards. I certify under penalty of law that the debris has been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.	Applies to Items: Reference: 268.7(b)(4)(v) and 268.9(d)
---	--

13. <input type="checkbox"/> HTMR residue from treating K061, K062 and/or F006 wastes. I certify under penalty of law that the generic exclusion levels for all constituents have been met without impermissible dilution and that no characteristic of hazardous waste is exhibited. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.	Applies to items: Reference: 268.7(b)(4)(v) and 268.9(d)
--	--

Authorized Signature:
Printed Name / Title:

Charles T. Metzger
Charles T. Metzger

Date:
ELS

7/17/09



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$0.18/gallon, \$900.00/load freight

2. Contamination Limit (maximum limit before surcharges apply):

TOC: 20,000; Solids: 4%; Oil: 5%;

3. Surcharge Pricing:

TOC: \$0.03/gallon/5000 TOC above 20,000 Solids: \$0.01/gallon/percent greater than 4%; Oil: call salesperson; If heated/acidified: \$0.05/gallon

4. Special Testing Requirements:

TOC, Metals, solids, % oil, phenol

5. Treatment and Handling Protocol:

standard wastewater treatment

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

NA

8. Management for Product Recovered/Recycled (if applicable)

NA



4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Dana Carter
Cc: Matt Bowman, Prabhaker, Clint Hopkins, Sam Brown

Date: 6/29/09

From: Miles Root

Lab Memo: 09-127



Subject: **TT Barge Mile 183 Evaluation 0609-45**

A sample of waste water from TT Barge Mile 183 has been evaluated for potential processing at CES. This sample is evaluation 0609-45. This sample represents 400,000 gallons monthly of waste water receipts. While this particular sample is okay for processing, the evaluation form indicates that this water may contain up to 30% organics, which may be a problem. Further discussion will be needed on this stream.

This is fairly clean looking waste water with a trace of organics on top. It carries a D018 waste code for benzene. The water does have a hydrocarbon type of odor, but it is not strong. This water originates from the cleaning of barges. It has a pH of 6. The water treats easily; forming a nice floc that phase separates out nicely. The treated water has no phenols, TOC of 1098 and very low metals.

While this particular sample looks good for processing, we don't want to end up with hazardous waste water containing several percentages of benzene or some other organics that will be difficult to deal with. This is an operations issue and needs to be addressed. This particular sample may contain high benzene content that was not checked. Otherwise, this particular sample looks fine and is recommended for acquisition and treatment at CES. The table below summarizes the analytical testing.

TT Barge Mile 183	
Evaluation 0609-45	
Solids, vol%	trace
Odor	slight hydrocarbon
pH	6
Phenols, ppm	0
TOC, mg/L	1,098
Oil, vol%	0
Treatability	Okay
Metals, ppm	
Ni	0.000
Zn	0.002
Cu	0.005
Cd	0.000
Cr	0.000

 10100 East Fwy (I-10) Ste. 100 Houston, TX 77029 713-453-6060 1-877-478-6060 Toll Free 713-453-6091 Fax ablabs.com		1. Company: CPS ENV. Address: 4901 Quince Rd Houston TX 77021 Contact: Dana Carter Phone: 713-748-9801 Fax: 713-676-1676 E-mail: kcarter@cpsenv.com		2. Company: CPS ENV. Address: 4901 Quince Rd Houston TX 77021 Contact: Dana Carter Phone: 713-676-1660 Fax: 713-676-1676 E-mail: kcarter@cpsenv.com		3. PO # 0609-415	
A&B JOB ID #		4. Turnaround Time (Business Days) <input type="checkbox"/> 1 Day* <input type="checkbox"/> Other <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days* <input checked="" type="checkbox"/> 7 Days - Standard *Surcharge applies					
5. Project #		6. Project Name/Location TT Pads Mile 152		7. Reporting Requirement: <input type="checkbox"/> TRRP Limits only <input type="checkbox"/> TRRP Rpt. Package <input type="checkbox"/> See Attached <input type="checkbox"/> Standard Level II		8. Sampler's Name & Company (PLEASE PRINT) Dana Carter (CPS) Sampler's Signature & Date 	
9. Sample ID and Description		10. Sampling		11. 12. Matrix		13. 14. Containers*	
LAB USE ONLY		Date Time		Comp. Grab Water Soil Sludge Oil Air Other		15. Preservatives**	
19. RELINQUISHED BY		DATE TIME		20. RECEIVED BY		DATE TIME	
1 Dana Carter		11/09/11 12:05		S. K. Hinkle		11/09/11 12:05	
2							
3							
21. RECEIVED BY LABORATORY							
*Containers: VOA - 40 ml vial A/G - Amber/Glass 1 Liter 4 oz/8 oz - glass wide mouth P/O - Plastic/other		**Preservatives: C - Cool H - HCl N - HNO ₃ S - H ₂ SO ₄ OH - NaOH T - Na ₂ S ₂ O ₃ X - Other					
METHOD OF SHIPMENT walk-in		BILL OF LADING/TRACKING #					
LAB USE ONLY SAMPLING RENTAL P/U							
						22. KNOWN HAZARDS/COMMENTS Temperature: _____ °C Intact: Y or N Initials _____ A&B cannot accept verbal changes Please FAX written changes to 713-453-6091 Samples will be disposed of after 30 days A&B reserves the right to return samples	

Laboratory Analysis Report

Total Number of Pages: 6

Job ID : 09070287



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :
0609-45 TT Barge Mile 183

Report To : Client Name: CES Environmental
Attn: Dana Carter
Client Address: 4904 Griggs Rd
City, State, Zip: Houston, Texas, 77021

P.O.#.: 0609-45
Sample Collected By: Dana Carter
Date Collected: 07/09/09

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
Hazardous WW	Water	09070287.01

Shantall Carpenter

Released By: Shantall Carpenter

Title: Project Manager

Date: 7/16/2009



This Laboratory is NELAP (T104704213-09-TX) accredited. Effective: 07/01/2009; Expires: 06/30/2010

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Date Received : 07/10/2009 12:05

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 09070287

Date: 7/16/2009

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

Qualifier Definition

**LABORATORY TEST RESULTS**

Job ID : 09070287

Date 7/16/2009

Client Name: CES Environmental
Project Name: 0609-45 TT Barge Mile 183

Attn: Dana Carter

Client Sample ID: Hazardous WW
Date Collected: 07/09/09
Time Collected: 16:00
Other Information:

Job Sample ID: 09070287.01
Sample Matrix: Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	Benzene	0.289	mg/L	25	0.05			07/13/09 15:51	HK
	Toluene	0.144	mg/L	25	0.05			07/13/09 15:51	HK
	Ethylbenzene	0.117	mg/L	25	0.05			07/13/09 15:51	HK
	m- & p-Xylenes	BRL	mg/L	25	0.1			07/13/09 15:51	HK
	o-Xylene	BRL	mg/L	25	0.05			07/13/09 15:51	HK
	Xylenes	BRL	mg/L	25	0.15			07/13/09 15:51	HK
	Trifluorotoluene(surr)	100	%	25	75-125			07/13/09 15:51	HK

QUALITY CONTROL CERTIFICATE



Job ID : 09070287

Date : 7/16/2009

Analysis : Purgeable Aromatics

Method : SW-846 8021B

Reporting Units : mg/L

QC Batch ID : Qb09071518

Created Date : 07/15/09

Created By : Hkhuc

Samples in This QC Batch : 09070287.01

Sample Preparation : PB09071519

Prep Method : SW-846 5030C

Prep Date : 07/13/09 11:30

Prep By : Hkhuc

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Benzene	71-43-2	BRL	mg/L	1	0.002	
Toluene	108-88-3	BRL	mg/L	1	0.002	
Ethylbenzene	100-41-4	BRL	mg/L	1	0.002	
m- & p-Xylenes	108-38-3&106-42-3	BRL	mg/L	1	0.004	
o-Xylene	95-47-6	BRL	mg/L	1	0.002	
Xylenes		BRL	mg/L	1	0.006	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Benzene	0.02	0.021	105	0.02	0.021	105	0	30	79.1-123	
Toluene	0.02	0.019	95	0.02	0.019	95	0	30	72.3-117	
Ethylbenzene	0.02	0.021	105	0.02	0.02	100	4.9	30	77.4-119	
m- & p-Xylenes	0.04	0.043	108	0.04	0.043	108	0	30	77.2-127	
o-Xylene	0.02	0.02	100	0.02	0.02	100	0	30	71-114	
Xylenes	0.06	0.063	105	0.06	0.063	105	0	30	75.8-121	

QC Type: MS and MSD

QC Sample ID: 09070291.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Benzene	BRL	0.02	0.021	105						65-143	
Toluene	BRL	0.02	0.019	94						67-136	
Ethylbenzene	BRL	0.02	0.021	105						80-134	
m- & p-Xylenes	BRL	0.04	0.043	107						81-131	
o-Xylene	BRL	0.02	0.02	97.8						74-134	
Xylenes	BRL	0.06	0.063	105						80-136	

Refer to the Definition page for terms.

EPAAHO109000095



Sample Condition Checklist

Date : 07/16/09

A&B JobID : 09070287		Date Received : 07/10/2009		Time Received : 12:05PM								
Client Name : CES Environmental												
Temperature : 23.1°C		Sample pH : N/A										
	Check Points				Yes	No						
1.	Cooler seal present and signed.				N/A							
2.	Sample(s) in a cooler.					X						
3.	If yes, ice in cooler.					X						
4.	Sample(s) received with chain-of-custody.				X							
5.	C-O-C signed and dated.				X							
6.	Sample(s) received with signed sample custody seal.				N/A							
7.	Sample containers arrived intact. (If no comment).				X							
8.	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Sample(s) were received in appropriate container(s).				X							
10.	Sample(s) were received with proper preservative				N/A							
11.	All samples were logged or labeled.				X							
12.	Sample ID labels match C-O-C ID's				X							
13.	Bottle count on C-O-C matches bottles found.				X							
14.	Sample volume is sufficient for analyses requested.				X							
15.	Samples were received within the hold time.				X							
16.	VOA vials completely filled.				N/A							
17.	Sample accepted.				X							
Comments : Include actions taken to resolve discrepancies/problem:												
Temperature requirements were not met.												

Received by : Mgonzalez

Check in by/date : Mgonzalez / 07/10/2009

HAU-3436
ZACH SYSTEMS CORP.



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/27/2009

Dear Ronald Smith

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3436

Expiration Date 7/27/2011

Generator: ZaCh System Corp. (La Porte)

Address: 914 South 16th Street
La Porte, TX 77571

Waste Information

Name of Waste: Non Hazardous Class I Solids

TCEQ Waste Code #: 00324091

Container Type:

Detailed Description of Process Generating Waste:

Unused Product / Out of Date

Color: Various

Odor: None to acid

pH: 4-9

Physical State:

Incompatibilities: See MSDS

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental
Services, Inc.4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
<http://www.cesenvironmental.com>TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900JB / ~~KAM~~
JROS
Houston

#3436

SECTION 1: Generator Information

Company : ZaCh System Corp. (La Porte)
Address : 914 South 16th Street 914 South 16th Street
City, State, Zip : La Porte TX 77571
Contact : Ronald Smith Title : EHS MANAGER
Phone No : (281) 842-0201 Fax : (281) 867-1734
24 / HR Phone :
U.S EPA I.D No : TXR000079062
State I.D : 88429 SIC Code

SECTION 2: Billing Information

Company : ZaCh System Corp. (La Porte)
Address : 914 South 16th Street 914 South 16th Street
City, State, Zip : La Porte TX 77571
Contact : Ronald Smith Title :
Phone No : (281) 842-0201 Fax : (281) 867-1734

SECTION 3: General Description of the Waste

Name of Waste : Non Hazardous Class I solids

Detailed Description of the Process Generating Waste:

unused products / out of date

Physical State : ☒ Liquid ☒ Sludge ☐ Powder
☒ Solid ☒ Filter Cake ☐ Combination

Color : varies Odor : none to acid

Specific Gravity (Water=1) : >1.2 Density : 10 lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ NoDoes this material contain any para substituted phenolic compounds? ☐ Yes ☒ NoIs the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Layers : ☒ Single-Phase ☐ Multi-PhaseContainer Type : ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size : 5/55 gal

Number Of Units : 6+

Is this a USEPA "Hazardous Waste" per 40 CFR 261.3? ☐ Yes ☒ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", is it: ☐ D001 ☐ D002 ☐ D003

EPAHQ109000100

Corrosivity : X Ignitability : X **SECTION 9: Waste Receipt Classification Under 40 CFR 437**Is this material a wastewater or wastewater sludge ? ☐ YES ☒ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations

☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 10: Additional Instruction

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Ronald Smith

Date: 7-21-09

Printed Name / Title: RONALD Smith / EHS Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Process Facility Information: ☐

Compliance Officer: Barbara E. Tyson

Date: 7-22-09

Status: ☒ Approved

☐ Rejected

Approval Number: 3436



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

Call Joy for pricing info.

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Belk to Class 1 box

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

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8. Management for Product Recovered/Recycled (if applicable)

--

Idrum

Material Safety Data Sheet

acc. to OSHA and ANSI

Printing date 07/14/2003

Reviewed on 03/24/2003

- 1 Identification of substance:

- ♦ Product details:

- ♦ Product name: 4-Piperidone hydrochloride monohydrate

Piredone HCL

- ♦ Stock number: A13726

- ♦ Manufacturer/Supplier:

Alfa Aesar, A Johnson Matthey Company
Johnson Matthey Catalog Company, Inc.
30 Bond Street
Ward Hill, MA 01835-8099
Emergency Phone: (978) 521-6300
CHEMTREC: (800) 424-9300
Web Site: www.alfa.com

- ♦ Information Department: Health, Safety and Environmental
Department

- ♦ Emergency information:

During normal hours the Health, Safety and Environmental Department.
After normal hours call Chemtrec at (800) 424-9300.

- 2 Composition/Data on components:

- ♦ Chemical characterization:

Description: (CAS#)

A13726 - 4-Piperidone hydrochloride monohydrate

4-Piperidone hydrochloride monohydrate (CAS# 40064-34-4);
100%

♦ Identification number(s):

♦ EINECS Number: 254-779-9

• 3 Hazards identification

♦ Hazard description: · Not applicable

♦ Information pertaining to particular dangers for man and environment

Not applicable

♦ Classification system

♦ HMIS ratings (scale 0-4)

(Hazardous Materials Identification System)

Health (acute effects) = 1

Flammability = 1

Reactivity = 1

• 4 First aid measures

♦ After inhalation

Supply fresh air. If required, provide artificial respiration.
Keep patient warm.
Seek immediate medical advice.

♦ After skin contact

Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.

♦ After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

♦ After swallowing Seek medical treatment.

A13726 - 4-Piperidone hydrochloride monohydrate

- **5 Fire fighting measures**

- ♦ **Suitable extinguishing agents**

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- ♦ **Special hazards caused by the material, its products of combustion or**

- resulting gases:**

- In case of fire, the following can be released:

- Carbon monoxide and carbon dioxide

- Nitrogen oxides (NOx)

- Hydrogen chloride (HCl)

- ♦ **Protective equipment:**

Wear self-contained respirator.

Wear fully protective impervious suit.

- **6 Accidental release measures**

- ♦ **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- ♦ **Measures for environmental protection:**

Do not allow material to be released to the environment without proper governmental permits.

- ♦ **Measures for cleaning/collecting:** Pick up mechanically.

- ♦ **Additional information:**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

- **7 Handling and storage**

- ♦ **Handling**

A13726 - 4-Piperidone hydrochloride monohydrate

◆ Information for safe handling:

Keep container tightly sealed.
Store in cool, dry place in tightly closed containers.
No special precautions are necessary if used correctly.

◆ Information about protection against explosions and fires:

No information known.

◆ Storage

◆ Requirements to be met by storerooms and receptacles:

No special requirements.

◆ Information about storage in one common storage facility:

Store away from oxidizing agents.

◆ Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

• 8 Exposure controls and personal protection

◆ Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with limit values that require monitoring at the workplace:

Not required.

◆ Additional information: No data

◆ Personal protective equipment

◆ General protective and hygienic measures

A13726 - 4-Piperidone hydrochloride monohydrate

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

♦ **Breathing equipment:**

Use suitable respirator when high concentrations are present.

♦ **Protection of hands:** Impervious gloves

♦ **Eye protection:** Safety glasses

♦ **Body protection:** Protective work clothing.

• **9 Physical and chemical properties:**

♦ **General Information**

♦ **Form:** Crystalline

♦ **Color:** Beige

♦ **Odor:** Not determined

♦	<u>Method</u>	<u>Value/Range</u>	<u>Unit</u>
---	---------------	--------------------	-------------

♦ **Change in condition**

♦ **Melting point/Melting range:** 94-96 ° C

♦ **Boiling point/Boiling range:** Not determined

♦ **Sublimation temperature / start:** Not determined

♦ **Flash point:** Not applicable

A13726 - 4-Piperidone hydrochloride monohydrate

♦ **Flammability (solid, gaseous)** Product is not flammable.

♦ **Ignition temperature:** Not determined

♦ **Decomposition temperature:** Not determined

♦ **Danger of explosion:**

Product does not present an explosion hazard.

♦ **Explosion limits:**

♦ **Lower:** Not determined

♦ **Upper:** Not determined

♦ **Vapor pressure:** Not determined

♦ **Density:** Not determined

♦ **Solubility in / Miscibility with**

♦ **Water:** Not determined

• 10 **Stability and reactivity**

♦ **Thermal decomposition / conditions to be avoided:**

Decomposition will not occur if used and stored according to specifications.

♦ **Materials to be avoided:** Oxidizing agents

A13726 - 4-Piperidone hydrochloride monohydrate

♦ **Dangerous reactions** No dangerous reactions known

♦ **Dangerous products of decomposition:**

Carbon monoxide and carbon dioxide

Nitrogen oxides

Hydrogen chloride (HCl)

• **11 Toxicological information**

♦ **Acute toxicity:**

♦ **Primary irritant effect:**

♦ **on the skin:** May cause irritation

♦ **on the eye:** May cause irritation

♦ **Sensitization:** No sensitizing effects known.

♦ **Subacute to chronic toxicity:**

Other than potential irritation (see above), no information on illness or injury to humans from acute or chronic exposure to this product is available.

♦ **Additional toxicological information:**

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

• **12 Ecological information:**

♦ **General notes:**

Do not allow material to be released to the environment without proper governmental permits.

• 13 Disposal considerations

♦ Product:

♦ Recommendation

Consult state, local or national regulations to ensure proper disposal.

♦ Uncleaned packagings:

♦ Recommendation:

Disposal must be made according to official regulations.

• 14 Transport information

Not a hazardous material for transportation.

♦ DOT regulations:

♦ Hazard class: None

♦ Land transport ADR/RID (cross-border)

♦ ADR/RID class: None

♦ Maritime transport IMDG:

♦ IMDG Class: None

♦ Air transport ICAO-TI and IATA-DGR:

♦ ICAO/IATA Class: None

♦ **Transport/Additional information:**

Not dangerous according to the above specifications.

• **15 Regulations**

♦ **Product related hazard informations:**

Observe the general safety regulations when handling chemicals

♦ **National regulations**

This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only.

♦ **Information about limitation of use:**

For use only by technically qualified individuals.

• **16 Other information:**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

♦ **Department issuing MSDS:** Health, Safety and Environmental Department.

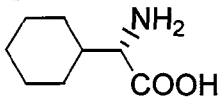

♦ **Contact:** Darrell R. Sanders

MATERIAL SAFETY DATA SHEET

36 drums

07-20-2004

1- PRODUCT & COMPANY INFORMATION

Product Name	L-Cyclohexylglycine	
Catalog Number	CY-1432	
Company	OmegaChem inc. 8800 boul. De la Rive Sud Levis (Quebec) Canada G6V 9H1 Tel. (418) 837-4444 Fax (418)837-5196 info@omegachem.com www.omegachem.com	

2 - COMPOSITION / INGREDIENTS

Substance Name	L-(+)-Cyclohexylglycine (S)-(+)-alpha-Aminocyclohexylacetic acid		
CAS Number	SARA 313	Formula	
14328-51-9	no	C ₈ H ₁₅ NO ₂	

3 - HAZARDS IDENTIFICATION

HMIS RATING

HEALTH: 0
FLAMMABILITY: 0
REACTIVITY: 0

NFPA RATING

HEALTH: 0
FLAMMABILITY: 0
REACTIVITY: 0

See section 11 for additional information on toxicity.

4 - FIRST AID

Oral exposure	If swallowed, wash mouth with water, provided the person is conscious and call a physician.
Inhalation exposure	Remove the person to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
Dermal exposure	Immediately wash skin with soap and large amounts of water.
Eye exposure	Flush eyes with large amounts of water for at least 15 minutes.

5 - FIRE FIGHTING MEASURES

Flash point	Autoignition temperature	Flammability
N/A	N/A	N/A
Extinguishing media	Water spray; carbon dioxide; dry chemical powder or appropriate foam.	
Firefighting	Protective equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific hazard(s): Emits toxic fumes under fire conditions.	

6 – ACCIDENTAL RELEASE MEASURES

Personal precautions	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.
Cleaning up	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7 – HANDLING AND STORAGE

Handling	Avoid inhalation, contact with eyes, skin and clothing.
Storage	Avoid prolonged or repeated exposure. Suitable: Keep tightly closed.

8 – EXPOSURE CONTROLS / PPE

Engineering controls	Safety shower and eye bath. Mechanical exhaust required.
Personal protective equipment	Respiratory: Wear dust mask. Hand: Rubber gloves. Eye: Chemical safety goggles.
General hygiene measures	Wash thoroughly after handling.

9 – PHYSICAL / CHEMICAL PROPERTIES

Appearance	Solid; white		
Molecular Weight	157.21	Evaporation rate	N/A
pH	N/A	Viscosity	N/A
Boiling point (°C)	N/A	Surface tension	N/A
Melting point (°C)	N/A	Partition coefficient	N/A
Freezing point (°C)	N/A	Decomposition temp. (°C)	307.5°C
Vapor pressure	N/A	Flash point	N/A
Vapor density	N/A	Explosion limits	N/A
Saturated Vapor Conc.	N/A	Flammability	N/A
SG / Density	N/A	Autoignition temp. (°C)	N/A
Odor threshold	N/A	Refractive index	N/A
Volatile %	N/A	Optical rotation	+28° (c=0.5, 1N HCl)
VOC content	N/A	Solubility	N/A
Water content	N/A	Miscellaneous	
Solvent content	N/A	N/A = not available	

10 – STABILITY AND REACTIVITY

Stability	Materials to Avoid: Strong oxidizing agents.
Hazardous decomposition products	Carbon monoxide Carbon dioxide Nitrogen oxides

11-TOXICOLOGICAL INFORMATION

Route of exposure	
Skin contact	May cause skin irritation.
Skin absorption	May be harmful if absorbed through the skin
Eye	May cause eye irritation.

Inhalation	May be harmful if inhaled. May be irritating to mucous membranes and upper respiratory tract.
Ingestion	May be harmful if swallowed.
Signs and symptoms of exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12 – ECOLOGICAL INFORMATION

13 – DISPOSAL CONSIDERATIONS

Appropriate method of disposal of substance or preparation	Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.
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14 – TRANSPORT INFORMATION

DOT	Proper Shipping Name: None Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.
IATA	Non-Hazardous for Air Transport: Non-hazardous for air transport.

15 – REGULATORY INFORMATION

EU	
USA	SARA LISTED: No
Canada	WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR. DSL: No NDSL: No

16 – OTHER INFORMATION

The product is to be used for R&D only. Not for drug, household or other uses.
The above information is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety measures. It is believed to be correct but does not purport to be inclusive and shall be used only as a guide.
OmegaChem Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.



ZaCh

S Y S T E M

ZaCh System Corporation

21 Drums

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: _____ Z-L-Cyclohexylglycine
PRODUCT ID: _____ 01273
SYNONYMS: _____ Z-CHG; N-(Carbobenzyloxy)-L-Cyclohexylglycine; CBZ-L-Cyclohexylglycine; C₁₆H₂₁NO₄
ISSUE DATE: _____ 6/26/2008
EDITION NO.: _____ 1

ZaCh System Corporation.
914 So. 16th Street, La Porte, Texas, USA
24-hour Emergency Telephone Number: 1-281-842-0245
For Product Safety Information (8am-5pm Central time):
1-281-842-0201

PREPARER: EHS Group

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Material/CAS Number</u>	<u>Percent</u>
Z-L-Cyclohexyl Glycine 69901-75-3	>99
Undefined impurities NONE	<1

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

CAUTION! May cause irritation to eyes and skin. Dust may cause irritation of nasal and upper respiratory tract. May be harmful if inhaled. May be harmful if swallowed.

Precautions: Do not get in eyes, on skin, or on clothing. Extremely sensitive to moisture – Material should only be handled in a moisture-free environment. Unused material must be stored under dry nitrogen. Do not inhale. Dust may cause irritation of nasal and respiratory tract. Use only with adequate ventilation. Ventilation must be sufficient to minimize employee exposure in the work area. Use appropriate personal protective clothing and respiratory protection. Do not swallow. Remove and contaminated clothing before reuse. Wash thoroughly every day after work. Do not eat, drink, or smoke in work area. The fine dust contained in this product is capable of creating dust explosions.

4. FIRST AID MEASURES

INHALATION: Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

EYE/SKIN CONTACT: **EYE:** Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary. **SKIN:** Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INGESTION: Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical powder or appropriate foam.

SPECIAL FIREFIGHTING PROCEDURES: Dust/air mixtures may ignite or explode. Emits toxic fumes under fire conditions. Fire-fighters must wear NIOSH approved pressure demand, selfcontained breathing apparatus and full protective clothing when fighting chemical fires.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid generating dust. Dust may cause an explosion hazard. Provide maximum ventilation. Wear proper protective equipment. Sweep or gather up material and place in proper container for disposal or recovery.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Store in a cool, dry, well-ventilated place. Store only in closed, properly labeled containers. Keep container closed when not in use. Do not use in poorly ventilated or confined spaces without proper respiratory protection. The fine dust contained in this product is capable of creating dust explosions. When handling this product in large quantities, the guidelines established in NFPA 654, Prevention of Dust Explosions, should be followed.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Limits:

8-hour Time Weighted Average (TWA); 15 -minute Short-Term Exposure Limit (STEL)

OSHA: No occupational exposure limits have been established by OSHA for this product.

ACGIH: No occupational exposure limits have been established by ACGIH for this product.

ONTARIO: No occupational exposure limits have been established by Ontario for this product.

RESPIRATORY PROTECTION: If use or application of this product generates dust, use an appropriate NIOSH-approved particulate filter respirator. The respirator use limitations made by NIOSH and by the manufacturer must be observed.

VENTILATION: Use local exhaust or general room/dilution ventilation as appropriate to control employee exposures in the work place.

EYE AND FACE PROTECTION: Standard safety glasses with side shields.

PROTECTIVE GLOVES: Impervious gloves. Rubber.

OTHER PROTECTIVE EQUIPMENT: Boots, aprons, or chemical suits should be used when necessary to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: _____	NA
VAPOR DENSITY (Air=1): _____	NA
SPECIFIC GRAVITY (Water=1): _____	NA
pH: _____	Neutral
FREEZING/ MELTING POINT: _____	NA
SOLUBILITY (wt.% in water): _____	NA
BULK DENSITY: _____	NA
VOLUME % VOLATILE: _____	NA
VAPOR PRESSURE: _____	NA
EVAPOTATION RATE: _____	NA
HEAT OF SOLUTION: _____	NA
PHYSICAL STATE: _____	Powder or crystals
ODOR: _____	None
COLOR: _____	White

10. STABILITY AND REACTIVITY

Stability: Stable at room temperature.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (CONDITIONS/MATERIALS TO AVOID):
Strong acids. Strong bases. Strong oxidizers.

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:
Oxides of carbon. Oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY STATUS: This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, ACGIH, or OSHA.

MEDICAL CONDITIONS AGGRAVATED: None known.

EFFECTS OF OVEREXPOSURE:

ACUTE:

Eye/Skin: Eye or skin contact may cause irritation. Inhalation: Breathing dust can irritate the upper respiratory tract including the eyes, nose, and throat. Ingestion: Although ingestion of this product is not likely to occur in industrial applications, accidental ingestion may cause illness or irritation of the mouth and gastrointestinal tract.

CHRONIC: The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

No data at this time.

ENVIRONMENTAL FATE:

No data at this time.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Waste material must be disposed of in accordance with federal, state, provincial, and local environmental control regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

14. TRANSPORT INFORMATION

Proper Shipping Name: Not regulated

15. REGULATORY INFORMATION

USA TSCA: A component in this product is not listed on the TSCA inventory. This product can only be used in R&D (by a technically qualified individual) or FDA regulated applications.

EU EINECS: A component in this product is not listed on EINECS. This product can only be used in R&D applications.

CANADA DOMESTIC SUBSTANCES LIST (DSL): A component in this product is not listed on the Canadian DSL. This product can only be used in R&D applications.

AUSTRALIA AICS: A component in this product is not listed on AICS. This product can only be used in R&D applications.

KOREA ECL: One or more components in this product are not listed on the Korean Existing

Chemicals Inventory (KECI). This product can only be used in R&D applications.

JAPAN MITI (ENCS): One or more components in this product are not listed on the Japanese Existing and New Chemical Substances (ENCS) chemical inventory. This product can only be used in R&D applications.

PHILIPPINES PICCS: One or more components in this product are not listed on the Philippines Inventory of Chemical and Chemical Substances (PICCS). This product can only be used in R&D applications.

CHINA IECSC: A component in this product is not listed on the Inventory of Existing Chemical Substances in China (IECSC). This product can only be used in China with an appropriate exemption permit.

SARA TITLE III:

SARA (311, 312) Hazard Class:

Acute Health Hazard.

SARA (313) Chemicals:

Not listed.

SARA Extremely Hazardous Substance:

Not listed.

CERCLA Hazardous Substance:

Not listed.

CANADA REGULATIONS (WHMIS): NON-CONTROLLED

16. OTHER INFORMATION

NA = Not Available

#04-3437
Zach Systems Corp



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/27/2009

Dear Ronald Smith

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3437

Expiration Date 7/27/2011

Generator: ZaCh System Corp. (La Porte)

Address: 914 South 16th Street
La Porte, TX 77571

Waste Information

Name of Waste: Nonhaz Class 2 Solids

TCEQ Waste Code #: 01233192

Container Type:

Detailed Description of Process Generating Waste:

Off spec materials from manufacturing process

Color: Various

Odor: None to faint

pH: 3-11

Physical State:

Incompatibilities: Oxidizers, strong acids

Safety Related Data/Special Handling:

Std PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021

Phone: (713) 676-1460 Fax: (713) 676-1676

<http://www.cesenvironmental.com>

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

JB
JR
IS
Houston**SECTION 1: Generator Information**

Company : ZaCh System Corp. (La Porte)
Address : 914 South 16th Street 914 South 16th Street
City, State, Zip : La Porte TX 77571
Contact : Ronald Smith Title :
Phone No : (281) 842-0201 Fax : (281) 867-1734
24 / HR Phone :
U.S EPA I.D No : TXR000079062
State I.D : 88429 SIC Code

SECTION 2: Billing Information

Company : ZaCh System Corp. (La Porte)
Address : 914 South 16th Street 914 South 16th Street
City, State, Zip : La Porte TX 77571
Contact : Ronald Smith Title :
Phone No : (281) 842-0201 Fax : (281) 867-1734

SECTION 3: General Description of the Waste

Name of Waste : Nonhaz CLASS 2 Solids

Detailed Description of the Process Generating Waste:

Off spec materials from manufacturing process

Physical State : ☐ Liquid ☒ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color : various Odor : none to faint

Specific Gravity (Water=1) : na Density : Na lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ NoDoes this material contain any para substituted phenolic compounds? ☐ Yes ☒ NoIs the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Layers : ☒ Single-Phas ☐ Multi-PhaseContainer Type : ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size : 55

Number Of Units : 25

Is this a USEPA "Hazardous Waste" per 40 CFR 261.3? ☐ Yes ☒ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 ☐ D002 ☐ D003

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007
☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristics for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code No : 01233192

Proper U.S. State Waste Code No : _____ Non-RCRA/Non-DOT Regulated Material

Class : na UN/NA : na PG : na RQ : na

Flash Point >150	pH 3-11	Reactive Sulfides <20 mg/l	Reactive Cyanides <20 mg/l	Solids 75-80 %
Oil and Grease na mg/l	TOC na mg/l	Zinc na mg/l	Copper na mg/l	Nickel na mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The material / product consists of the following materials		Ranges are acceptable	or %
Sodium tungstate dihydrate		50-100	%
			%
			%
			%
		100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

std ppe

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

msds

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

oxidizers, strong acids

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : ☒
TCLP Volatiles : ☒
TCLP Semi-Volatiles : ☒
Reactivity : ☒

Corrosivity : X

Ignitability : X

SECTION 9: Waste Receipt Classification Under 40 CFR 437Is this material a wastewater or wastewater sludge ? ☐ YES ☒ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations

☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 10: Additional Instruction

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Ronald Smith

Date: 7-22-09

Printed Name / Title: Ronald Smith / EHS Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Process Facility Information:

Compliance Officer: Barbara K...

Date: 7-27-09

Status:

Approved

Rejected

Approval Number: 3437



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

call Joy for pricing info

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Bulk to class 2 by

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

--






7 drums



GARDENA, CA
NEW BRUNSWICK, NJ



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment						
	<table><tr><td>Health Hazard</td><td>2</td></tr><tr><td>Fire Hazard</td><td>0</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health Hazard	2	Fire Hazard	0	Reactivity	0	<div></div> <div>See Section 15.</div>
Health Hazard	2							
Fire Hazard	0							
Reactivity	0							

Section 1. Chemical Product and Company Identification		Page Number: 1
Common Name/ Trade Name	Sodium tungstate dihydrate	Catalog Number(s). S1515, S1516
		CAS# 10213-10-2
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	RTECS YO790000
		TSCA TSCA 8(b) inventory: No products were found.
Commercial Name(s)	Not available.	CI# Not available.
Synonym	Tungstic Acid, sodium salt, dihydrate	IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300 CALL (310) 516-8000
Chemical Name	Sodium Tungstate dihydrate	
Chemical Family	Not available.	
Chemical Formula	Na ₂ WO ₄ ·2H ₂ O	
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	

Section 2. Composition and Information on Ingredients					
		Exposure Limits			
Name	CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Sodium tungstate dihydrate	10213-10-2				100
Toxicological Data on Ingredients		Sodium tungstate dihydrate LD50: Not available. LC50: Not available.			

Section 3. Hazards Identification	
Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Continued on Next Page

EPAHO109000130

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Not available.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion	Not available.

Section 5. Fire and Explosion Data

Flammability of the Product	Non-flammable.
Auto-Ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Continued on Next Page

Section 7. Handling and Storage

Precautions	Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F).

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	TWA: 5 STEL: 10 (mg(W)/m ³) from ACGIH (TLV) [United States] Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical state and appearance	Solid.	Odor	Not available.
Molecular Weight	329.86 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Not available.
Boiling Point	Not available.		
Melting Point	692.22°C (1278°F)		
Critical Temperature	Not available.		
Specific Gravity	3.25 - 4.15(Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water. Insoluble in alcohol. It is soluble in about 1.1 parts of water		

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Incompatible materials
Incompatibility with various substances	Reactive with oxidizing agents.

Continued on Next Page

Sodium tungstate dihydrate

Page Number: 4

Corrosivity	Non-corrosive in presence of glass.
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Special Remarks on Reactivity	Not available.
-------------------------------	----------------

Special Remarks on Corrosivity	Not available.
--------------------------------	----------------

Polymerization	Will not occur.
----------------	-----------------

Section 11. Toxicological Information

Routes of Entry	Inhalation. Ingestion.
-----------------	------------------------

Toxicity to Animals	LD50: Not available. LC50: Not available.
---------------------	--

Chronic Effects on Humans	Not available.
---------------------------	----------------

Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation.
-------------------------------	--

Special Remarks on Toxicity to Animals	Not available.
--	----------------

Special Remarks on Chronic Effects on Humans	May affect genetic material. May cause adverse reproductive effects based on animal data. Animal studies showed post-implantation mortality effects on fertility.
--	--

Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: May cause skin irritation. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation with hypermotility and diarrhea. It may affect behavior/nervous system(somnolence, excitement, muscle weakness, convulsions, ataxia), cardiovascular system, respiration (respiratory depression), and blood.
--	---

Section 12. Ecological Information

Ecotoxicity	Not available.
-------------	----------------

BOD5 and COD	Not available.
--------------	----------------

Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
----------------------------	---

Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.
--	---

Special Remarks on the Products of Biodegradation	Not available.
---	----------------

Section 13. Disposal Considerations

Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
----------------	--

Continued on Next Page

EPAHO109000133

Section 14. Transport Information

DOT Classification Not a DOT controlled material (United States).

Identification Not applicable.

Special Provisions for Transport Not applicable.

DOT (Pictograms)

**Section 15. Other Regulatory Information and Pictograms**

Federal and State Regulations No products were found.

California Proposition 65 Warnings

Other Regulations Not available.

Other Classifications

WHMIS (Canada) Not controlled under WHMIS (Canada).

DSCL (EEC)

R36/38- Irritating to eyes and skin.

S2- Keep out of the reach of children.
S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	0
Reactivity	0
Personal Protection	E

National Fire Protection Association (U.S.A.)

Health



Flammability

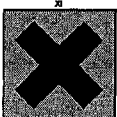
Reactivity

Specific hazard

WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment

Continued on Next Page



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.



Splash goggles.

Section 16. Other Information

MSDS Code S4610

References Not available.

Other Special Considerations Not available.

Validated by Sonia Owen on 8/11/2006.

Verified by Sonia Owen.

Printed 9/14/2006.

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

#H2U-3438

Zach Systems Corp



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Material / Product Approval Letter

Date 7/27/2009

Dear **Ronald Smith**

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3438

Expiration Date 7/27/2011

Producer: ZaCh System Corp. (La Porte)

Address: 914 South 16th Street
La Porte, TX 77571

Material / Product Information

Name of Material / Product Unused hydrogen peroxide

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused hydrogen peroxide 35%

Color: Clear

Odor: None

pH: 3-4

Physical State:

Incompatibilities: Combustible materials; ORGANICS; ACIDS; see section 6 of MSDS; see section 10 of MSDS

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
<http://www.cesenvironmental.com>
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

JB
JR
Product
Houston

SECTION 1: Material Producer Information

Company : ZaCh System Corp. (La Porte)
Address : 914 South 16th Street 914 South 16th Street
City, State, Zip : La Porte TX 77571
Contact : Ronald Smith Title :
Phone No : (281) 842-0201 Fax : (281) 867-1734
24 / HR Phone :
U.S EPA I.D No : TXR000079062
State I.D : 88429 SIC Code na

SECTION 2: Billing Information

Company : ZaCh System Corp. (La Porte)
Address : 914 South 16th Street 914 South 16th Street
City, State, Zip : La Porte TX 77571
Contact : Ronald Smith Title :
Phone No : (281) 842-0201 Fax : (281) 867-1734

SECTION 3: General Description of the Material / Product

Name of Material / Product : Unused hydrogen peroxide

Detailed Description of the Process Generating or Producing the Material / Product:

Unused hydrogen peroxide 35%

Physical State : ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color : Clear Odor : none

Specific Gravity (Water=1) : 1.11 Density : 8-9 lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ NoDoes this material contain any para substituted phenolic compounds? ☐ Yes ☒ NoLayers : ☒ Single-Phas ☐ Multi-PhaseContainer Type : ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size : 55

Number Of Units : 1

Proper U.S. DOT Shipping Name : hydrogen peroxide, aqueous solutions with not less than 20% but not more than 40% hydrogen pe

Class : 5.1 (Oxidizer) UN/NA : UN2014 PG : II RQ : 100

Flash Point na	pH 3-4	Reactive Sulfides na mg/l	Reactive Cyanides na mg/l	Solids 0 %
Oil and Grease na mg/l	TOC na mg/l	Zinc na mg/l	Copper na mg/l	Nickel na mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
hydrogen peroxide	20-50	%
water	50-80	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.
std PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.
msds

SECTION 7: Incompatibilities

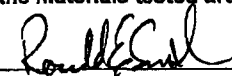
Please list all incompatibilities (if any):

Combustible materials; 'ORGANICS; ACIDS'; see section 6 of MSDS; see section 10 of MSDS

SECTION 8: Material Producer's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature :



Date :

7/22/09
7/30/2009

Printed Name / Title :

Ronald E. Smith / EHS Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Process Facility Information :

Compliance Officer :

Prabhakar Thangudu

Date :

7-27-09

Status :

Approved

Rejected

Approval Number :



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

No charge - trans only

2. Contamination Limit (maximum limit before surcharges apply):

Must be unused product

3. Surcharge Pricing:

4. Special Testing Requirements:

Must be unused

5. Treatment and Handling Protocol:

Use in WW treatment

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

See Section 4

8. Management for Product Recovered/Recycled (if applicable)

See Section 5

MSDS Number: H4065 * * * * * Effective Date: 01/09/08 * * * * * Supersedes: 08/02/07

MSDS Material Safety Data Sheet	24 Hour Emergency Telephone: 908-869-2151 CHEMTREC: 1-800-424-9300
	National Response In Canada CANUTEC: 613-496-6666
From: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865	Outside U.S. and Canada Chemtree: 703-527-3867
NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.	
All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.	

HYDROGEN PEROXIDE SOLUTION, 30%

1. Product Identification

Synonyms: Peroxide; 100 volume peroxide; Hydrogen dioxide solution; Hydrogen peroxide, 30%, unstabilized; Hydrogen Peroxide, 30%, Ultrex®
CAS No.: 7722-84-1
Molecular Weight: 34.01
Chemical Formula: H₂O₂
Product Codes:
J.T. Baker: 2186, 2189, 2190, 2200, 2201, 2202, 2203, 2204, 3664, 5155, 5170, 5369, 5516, 5803, 5816, 5846, 5853, 5895, 5898, 5899, 5995, 6995
Mallinckrodt: 5240, H021, V340

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Hydrogen Peroxide	7722-84-1	29 - 32%	Yes
Water	7732-18-5	68 - 71%	No

3. Hazards Identification

Emergency Overview

DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. CORROSIVE. CAUSES BURNS TO SKIN, EYES, AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED.

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Life)
Flammability Rating: 0 - None
Reactivity Rating: 3 - Severe (Oxidizer)
Contact Rating: 4 - Extreme (Corrosive)
Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES
Storage Color Code: White (Corrosive)

Potential Health Effects

Inhalation:

Vapors are corrosive and irritating to the respiratory tract. Inhalation of mist may burn the mucous membrane of the nose and throat. In severe cases, exposures may result in pulmonary edema and death.

Ingestion:

Corrosive and irritating to the mouth, throat, and abdomen. Large doses may cause symptoms of abdominal pain, vomiting, and diarrhea as well as blistering or tissue destruction. Stomach distention (due to rapid liberation of oxygen), and risk of stomach perforation, convulsions, pulmonary edema, coma, possible cerebral edema (fluid on the brain), and death are possible.

Skin Contact:

Corrosive. Symptoms of redness, pain, and severe burn can occur.

Eye Contact:

Vapors are very corrosive and irritating to the eyes. Symptoms include pain, redness and blurred vision. Splashes can cause permanent tissue destruction.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse. If allowed to dry on clothing, evaporation leads to concentration and increased possibility of ignition.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physician:

Pulmonary edema may be delayed for 24 to 72 hours; keep under observation. Gastric lavage may be necessary if swallowed. Analysis of body fluids (particularly gastric aspirates) using the titanium chloride reaction, if done immediately, will reveal peroxides.

5. Fire Fighting Measures

Fire:

Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Increases the flammability of combustible, organic and readily oxidizable materials.

Explosion:

Contact with oxidizable substances may cause extremely violent combustion. Drying of concentrated hydrogen peroxide on clothing or other combustible materials may cause fire or explosion. Sealed containers may rupture when heated.

Fire Extinguishing Media:

Water spray may be used to extinguish surrounding fire and cool exposed containers. Water spray will also reduce fume and irritant gases.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

CAUTION! Caustic material. Causes fires with organic material. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Do not return spilled material to original container.

Larger Spills: Dilute with a large amount of water and hold in a pond or dyked area until the peroxide decomposes followed by discharge into a suitable treatment system. May be neutralized with sodium metabisulfite or sodium sulfite after diluting to 5-10% peroxide.

Do not flush undiluted material to sewer. This oxidizing material can increase the flammability of adjacent combustible materials. Empty containers should be rinsed with water before discarding.

7. Handling and Storage

Store in a cool (< 35C), well-ventilated dark area separated from combustible substances, reducing agents, strong bases, organics. Do not store on wooden shelves or floors. Suggest rotation of stock. Containers must be vented, but check periodically for bulging containers which can burst from pressure. Protect containers from physical damage, contamination, heat and incompatibles. Contamination from any source (dust, metals) may cause rapid decomposition with generation of large quantities of oxygen gas and high pressures. Rinse empty containers thoroughly with clean water. Glass, polyethylene, stainless steel and aluminum are recommended materials for storage containers. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

-OSHA Permissible Exposure Limit (PEL):

1 ppm (TWA).

-ACGIH Threshold Limit Value (TLV):

1 ppm (TWA), A3: Animal carcinogen.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, wear a supplied air, full-facepiece respirator, airtight hood, or full-facepiece self-contained breathing apparatus. This substance has unknown warning properties.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Clear, colorless liquid.

Odor:

Slight acrid odor.

Solubility:

Infinitely soluble.

Density:

1.11

pH:

3.3

% Volatiles by volume @ 21C (70F):

100

Boiling Point:

108C (226F)

Melting Point:

-25C (-13F)

Vapor Density (Air=1):

1.17

Vapor Pressure (mm Hg):

25 @ 30C (86F)

Evaporation Rate (BuAc=1):

< 1

10. Stability and Reactivity

Stability:

Normally stable if uncontaminated, but slowly decomposes to release oxygen. Unstable with heat, may result in dangerous pressures. A strong oxidizer, reacts violently upon contact with many organic substances, particularly textile and paper. Avoid light and keep in a closed but vented container to prevent evaporation (concentration) and contamination.

Hazardous Decomposition Products:

Decomposes to water and oxygen with rapid heat release. Use vented containers. The solution can decompose violently upon heating.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Heat, reducing agents, organic materials, dirt, alkalis, rust, and many metals. Spontaneous combustion may occur on standing in contact with readily flammable materials.

Conditions to Avoid:

Avoid excess heat and contact with combustible or organic materials. Light and incompatibles.

11. Toxicological Information

For Hydrogen peroxide: No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a tumorigen and mutagen.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Hydrogen Peroxide (7722-84-1)	No	No	3
Water (7732-18-5)	No	No	None

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION (WITH 30-32% HYDROGEN PEROXIDE)

Hazard Class: 5.1, 8

UN/NA: UN2014

Packing Group: II

Information reported for product/size: 463LB

International (Water, I.M.O.)**Proper Shipping Name:** HYDROGEN PEROXIDE, AQUEOUS SOLUTION (WITH 30-32% HYDROGEN PEROXIDE)**Hazard Class:** 5.1, 8**UN/NA:** UN2014**Packing Group:** II**Information reported for product/size:** 463LB**15. Regulatory Information**

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Hydrogen Peroxide (7722-84-1)	Yes	Yes	Yes	Yes
Water (7732-18-5)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----				
Ingredient	Korea	DSL	NDSL	Phil.
Hydrogen Peroxide (7722-84-1)	Yes	Yes	No	Yes
Water (7732-18-5)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302- RQ	TPQ	List	-SARA 313- Chemical Catg.
Hydrogen Peroxide (7722-84-1)	No	No	No	No
Water (7732-18-5)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----				
Ingredient	CERCLA	261.33	-RCRA- 8(d)	-TSCA-
Hydrogen Peroxide (7722-84-1)	No	No	No	No
Water (7732-18-5)	No	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
 SARA 311/312: Acute: Yes Chronic: No Fire: Yes Pressure: No
 Reactivity: Yes (Mixture / Liquid)

Australian Hazchem Code: 2P**Poison Schedule:** S6**WHMIS:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information**NFPA Ratings:** Health: 3 Flammability: 0 Reactivity: 1 Other: Oxidizer**Label Hazard Warning:**

DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. CORROSIVE. CAUSES BURNS TO SKIN, EYES, AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED.

Label Precautions:

Keep from contact with clothing and other combustible materials.

Do not store near combustible materials.

Do not get in eyes, on skin, or on clothing.

Do not breathe vapor or mist.

Store in a tightly closed container.

Use only with adequate ventilation.

Remove and wash contaminated clothing promptly.

Wash thoroughly after handling.

Avoid contamination from any source, metals, dust, and organic materials that may cause rapid decomposition, generation of large quantities of oxygen gas and high pressure. Drying of product on clothing or combustible materials may cause fire.

Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. In all cases get medical attention immediately.

Product Use:

Laboratory Reagent.

Revision Information:

MSDS Section(s) changed since last revision of document include: 13.

Disclaimer:

Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy.

This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING

WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO

THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY,

MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.



Hydrogen Peroxide, 50% (All Grades)

Material Safety Data Sheet

Arkema Inc.

1 PRODUCT AND COMPANY IDENTIFICATION

Basic Chemicals

2000 Market Street

Philadelphia, PA 19103

Information Telephone Numbers

Product Information

EMERGENCY PHONE NUMBERS:

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison Control Center

(866) 767-5089 (24Hrs)

Phone Number

215-419-7704

Available Hrs

8:30 a.m. - 5:00 p.m.
(Eastern)

Product Name Hydrogen Peroxide, 50% (All Grades)

Product Synonym(s)

Chemical Family Peroxide

Chemical Formula H₂O₂

Chemical Name Hydrogen Peroxide Solution, 50%

EPA Reg Num

Product Use

IN CANADA, IN CASE OF EMERGENCY CALL:

CANUTEC 613-996-6666

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical Wt. %	OSHA
Hydrogen peroxide	7722-84-1	50%	Y
Water	7732-18-5	50%	N

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

The components of this product are all on the TSCA Inventory list.

3 HAZARDS IDENTIFICATION

Emergency Overview

Water white liquid with slightly sharp odor.

DANGER!

CAUSES EYE BURNS. MAY CAUSE BLINDNESS.

CAUSES SKIN BURNS.

CAUSES RESPIRATORY TRACT BURNS.

HARMFUL IF SWALLOWED.

STRONG OXIDIZER.

CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE OR EXPLOSIVE DECOMPOSITION.

Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests, it is considered to be moderately toxic if swallowed, practically non-toxic if absorbed



Hydrogen Peroxide, 50% (All Grades)

Material Safety Data Sheet

Arkema Inc.

through skin, slightly toxic if inhaled, and corrosive to eyes and skin. Inhalation of high concentrations of vapor or mist may cause severe irritation of the eyes, nose and upper respiratory tract with cough, chest discomfort and, in severe cases, pulmonary edema (accumulation of fluid in the lungs). Skin contact with concentrated liquid for a short period of time may cause a temporary whitening or bleaching of the skin. Prolonged or repeated contact with skin may cause severe irritation or burns characterized by a tingling sensation, redness, swelling and possible destruction of the dermis with ulceration. If swallowed, this material may cause irritation, burns or perforation of the gastrointestinal tract including the stomach and intestines. Symptoms of injury may include nausea, vomiting, diarrhea, abdominal pain, bleeding or tissue ulceration.

4 FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention.

IF ON SKIN, immediately flush with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Destroy contaminated shoes.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature	NA	
Flash Point	None	Flash Point Method
Flammable Limits- Upper	NA	
Lower	NA	

Extinguishing Media

Use water spray, water fog.

Fire Fighting Instructions

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards

Solutions above 65% are especially hazardous as they do not contain enough water to remove the heat of decomposition by evaporation. Avoid breathing fumes from fire exposed material.

6 ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Stop the leak, if possible. Ventilate the space involved. Flush with plenty of water. Combustible materials exposed to hydrogen peroxide should be rinsed immediately with large amounts of water to ensure that all the hydrogen peroxide is removed. Residual hydrogen peroxide which is allowed to dry on organic materials such as paper, fabrics, cotton, leather, wood, or other combustibles can cause the material to ignite and result in a fire. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.



Hydrogen Peroxide, 50% (All Grades)

Material Safety Data Sheet

Arkema Inc.

7 HANDLING AND STORAGE

Handling

Do not get in eyes, on skin or on clothing. Do not breathe mist. Do not taste or swallow. Wash thoroughly after handling. Use only with adequate ventilation. Avoid contamination. Keep container closed.

Storage

Store separate from acids, alkalies, reducing agents, combustibles.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

Eye / Face Protection

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

Skin Protection

Neoprene, Polyvinyl chloride, Butyl rubber Gloves should be worn when handling this material. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash skin thoroughly after handling.

Respiratory Protection

Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Other Protective Equipment

Rubber boots with neoprene or pvc soles. Do NOT wear leather boots. Note: As the water content of hydrogen peroxide evaporates, cotton, rayon, and wool fibers are particularly subject to spontaneous combustion. Where there is significant risk of sudden splash or spray, it is advised that an apron or rubber suit be worn. Any contaminated clothing, including gloves, shoes, aprons, coveralls, etc., should be removed immediately and thoroughly flushed with water to eliminate any traces of hydrogen peroxide before cleaning and reuse.

Airborne Exposure Guidelines for Ingredients

Exposure Limit		Value
Hydrogen peroxide		
ACGIH TWA	-	1 ppm 1.4 mg/m3
OSHA TWA PEL	-	1 ppm 1.4 mg/m3

-Only those components with exposure limits are printed in this section.

-Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.

-ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

-WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.



Hydrogen Peroxide, 50% (All Grades)

Material Safety Data Sheet

Arkema Inc.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	Water white liquid with slightly sharp odor.
pH	NE
Specific Gravity	1.196 @ 20 C
Vapor Pressure	18.3 @ 20 C
Vapor Density	1.0
Melting Point	NE
Freezing Point	-52 C (-62 F)
Boiling Point	114 C (237 F)
Solubility In Water	Complete
Percent Volatile	100%
Molecular Weight	34.01

10 STABILITY AND REACTIVITY

Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

Incompatibility

Material decomposes with the potential to produce a rupture of unvented closed containers. Contact with metals, metal ions, organics, wood, dust, shavings, dry vegetables may cause decomposition.

Hazardous Decomposition Products

This material decomposes if contaminated, causing fire and possible explosions. Oxygen can be liberated at temperatures above ambient.

11 TOXICOLOGICAL INFORMATION

Toxicological Information

Data on this material and/or its components are summarized below. Hydrogen Peroxide Single exposure (acute) studies indicate that this material is moderately toxic if swallowed (rat LD50 805 mg/kg; 70% solution), practically non-toxic if absorbed through skin (rabbit LD50 >6,500 mg/kg; 70% solution), slightly toxic if inhaled (no mortality in rats at 170 mg/m³ for 4 hours), and corrosive to rabbit eyes and skin. No skin allergy was observed in guinea pigs following repeated exposure. Solutions are commonly used for disinfecting wounds, bleaching hair or as a mouth wash and generally do not show adverse skin reactions. Accidental ingestion by children has resulted in death from lung edema, stomach erosions and gas distention and burns to the throat and esophagus. Eye and throat irritation and bleaching of hair have been reported by workers exposed to this material in the atmosphere.

Several studies have been conducted by administering material in the drinking water of mice and rats. The primary findings were irritation of the gastric mucous. Repeated inhalation exposure of rats and mice caused nasal irritation without notable adverse effects on the lining of the upper respiratory system. Repeated inhalation exposure of dogs resulted in upper respiratory tract irritation and emphysematous changes in the lungs. Generally, long-term oral dosing caused no adverse effects other than erosion of the stomach lining from direct application of the test material. Several studies have shown an increase in gastrointestinal tract tumors in mice and rats following long-term exposure in the drinking water. Concentrations less than 1% do not promote gastrointestinal tumors. The U.S. Federal Drug Administration has concluded that there is insufficient evidence of carcinogenicity and the International Agency for Research on Cancer (IARC) has concluded that this chemical is not classifiable as to its carcinogenicity to humans (Group 3). Genetic changes were observed in tests using bacteria and animal cells, but not in animals.



Hydrogen Peroxide, 50% (All Grades)

Material Safety Data Sheet

Arkema Inc.

12 ECOLOGICAL INFORMATION

Ecotoxicological Information

Data on this material and/or its components are summarized below.

Hydrogen Peroxide

This material is highly toxic to marine algae (LC50 0.85 mg/l), moderately toxic to Daphnia magna (EC50 7.7 mg/l) and Daphnia pulex (LC50 2.4 mg/l). It is slightly toxic to coho salmon (LC50 10 mg/l), channel catfish (LC50 37.4 mg/l), golden orfe (LC50 35 mg/l), fathead minnow (LC50 16.4 mg/l), snail (LC50 17.7 mg/l) and bacteria (EC50 30 mg/l).

Chemical Fate Information

No data are available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Consult with environmental engineer or professional to determine if neutralization is appropriate and for handling procedures for residual materials. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

14 TRANSPORT INFORMATION

DOT Name	Hydrogen Peroxide, Aqueous Solution,
DOT Technical Name	
DOT Hazard Class	5.1
UN Number	UN 2014
DOT Packing Group	PG II
RQ	
DOT Special Information	Subsidiary (8) Non-Bulk packages must have Class 5.1 and Class 8 labels. Bulk packages require Class 5.1 Oxidizer placards.

15 REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health	Y	Fire	Y
Delayed (Chronic) Health	N	Reactive	Y
		Sudden Release of Pressure	N

The components of this product are all on the TSCA Inventory list.

Ingredient Related Regulatory Information:

SARA Reportable Quantities

	CERCLA RQ	SARA TPQ
Hydrogen peroxide	NE	1000 LBS
Water	NE	



Hydrogen Peroxide, 50% (All Grades)

Material Safety Data Sheet

Arkema Inc.

SARA Title III, Section 302

This product does contain chemical(s), as indicated below, currently on the Extremely Hazardous Substance List, Section 302, SARA Title III. See Section 2 for further details regarding concentrations and registry numbers.

Hydrogen peroxide

Massachusetts Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

Hydrogen peroxide

New Jersey Right to Know

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.

Hydrogen peroxide

Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List.

Hydrogen peroxide

Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List.

Hydrogen peroxide

16 OTHER INFORMATION

Revision Information

Revision Date 12 OCT 2004
Supercedes Revision Dated 11-OCT-2004

Revision Number 20

Revision Summary

Section 16 for Canada

Key

NE= Not Established NA= Not Applicable (R) = Registered Trademark

Miscellaneous

This MSDS covers the following grades of H₂O₂:

Albone; Alb; Alb A; Alb CG; MS; Alb MT; Alb LCL; Alb LC; AL-1; AL-2; AL-3; AL-4; A; Per; Perone; FG; ASG; AG; CG; Pure; M; DS; EG; KASTONE 50; Valsterane; Peroxal; CLG; SEG

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Arkema Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of Arkema Inc., Arkema Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

HOU-3439

Tubal - Cain



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/29/2009

Dear Cade Durio

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3439

Expiration Date

Generator: Tubal-Cain

Address: 8737 Old Yacht Road
Port Arthur, TX 77642

Waste Information

Name of Waste: Oily Water

TCEQ Waste Code #: RECYCLE

Container Type:

Detailed Description of Process Generating Waste:

Oily Water from barge clean out

Color: brown to black **Odor:** hydrocarbon **pH:** 5-9

Physical State:

Incompatibilities: None known

Safety Related Data/Special Handling:

LEVEL D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



Recycle
Houston

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: Tubal-Cain
Address: 8737 Old Yacht Road
City: Port Arthur State: TX Zip: 77642
Contact: Cade Durio Title: _____
Phone Number: 409-960-9273 Fax Number: Cade@TCMarineServices.com
24/hr Phone Number: 409-960-9273
US EPA ID No: N/A
State ID No: N/A SIC Code: _____

SECTION 2: Billing Information - ☐ Same as Above

Company: Tubal-Cain
Address: _____
City: _____ State: _____ Zip: _____
Contact: _____ Title: _____
Phone Number: _____ Fax Number: _____

SECTION 3: General Description of the Waste

Name of Waste: Oily Water
Detailed Description of Process Generating Waste:
Oily Water from barge clean out

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination
Color: Brown to black Odor: hydrocarbon
Specific Gravity (water=1): .99 -1 Density: 8.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☐ One-Time

Quantity: 30K Gallons 6

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Proper US DOT Shipping Name:		Recyclable Hydrocarbon & Water Mixture			
Class:	N/A	UN/NA:	N/A	PG :	N/A
				RQ:	N/A

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>150		5-9		BRL <u>mg/l</u>		BRL <u>mg/l</u>		0-3 <u>%</u>	
Oil & Grease		TOC		Zinc		Copper		Nickel	
>1500	<u>mg/l</u>	>1500	<u>mg/l</u>	N/A	<u>mg/l</u>	N/A	<u>mg/l</u>	N/A	<u>mg/l</u>

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals: Not Regulated

TCLP Volatiles: Not Regulated

TCLP Semi-Volatiles: Not Regulated

Reactivity: Non-Reactive

Corrosivity: Non-Corrosive

Ignitability: >200

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☒ YES

☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☒ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: 7/29/09

Printed Name/Title: _____

Code Durio Project Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: <u>Pabunthya</u>	
Date: <u>7-29-09</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected
Approval Number: <u>3439</u>	

34397



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

PAY - \$0.20 / gallon if BS&W 0-15% & no transportation charge
CHARGE = \$0.35 / gallon if BS&W >15% & \$395 / TL for transportation

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

Chlorinated, flash, % solids, % water

5. Treatment and Handling Protocol:

Call Jenny or Matt with QC / QA results. Decant oil from water. Water to WWTP, Oil for Blending

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☒ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

--

#04 - 3440

Rolled Alloys



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/29/2009

Dear Steve

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3440

Expiration Date 7/29/2011

Generator: Rolled Alloys
Address: 9818 E. Hardy Rd.
Houston, TX 77093

Waste Information

Name of Waste: Cutting sand and water sludge from water jet blasting booth

TCEQ Waste Code #: CESQ5191

Container Type:

Detailed Description of Process Generating Waste:

Sand and garnet are used in hydroblasting with high pressure to cut various forms of steel

Color: Brown **Odor:** Odorless **pH:** 8.55

Physical State:

Incompatibilities:

Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Smp

JR
JR

3440

need completely
entered
in



CES Environmental
Services, Inc.

4904 Griggs Road, Houston, TX 77021

Phone: (713) 676-1460 Fax: (713) 676-1676

<http://www.cesenvironmental.com>

TCEQ Industrial Solid Waste Permit Number: 30948

U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

OS
Houston

SECTION 1: Generator Information

Company: Rolled Alloys

Address: 9818 East Hardy Road

City: Houston

State: TX

Zip: 77093

Contact: ~~Les Doves~~ Steve Augspurger

Title: Manager

Phone Number: ~~281-250-7722~~ 713-696-2248

Fax Number: ~~281-691-0247~~ 5140

24/hr Phone Number: 713-676-1460 724-8637

US EPA ID No: TXCESQG

State ID No: CESQG

SIC Code:

SECTION 2: Billing Information -

☒ Same as Above

Company:

Address:

City:

State:

Zip:

Contact:

Title:

Phone Number:

Fax Number:

SECTION 3: General Description of the Waste

Name of Waste: Cutting Sand and Water Sludge from Water Jet Blasting Booth

Detailed Description of Process Generating Waste:

Sand and garnet are used in hydroblasting with high pressure to cut various forms of steel

Physical State:

☐

Liquid

☒

Sludge

☐

Powder

☐

Solid

☐

Filter Cake

☐

Combination

Color: Brown

Odor:

Odorless

Specific Gravity (water=1):

N/A

Density:

N/A

lbs/gal

Does this material contain any total phenolic compounds?

☐

Yes

☒

No

Does this material contain any para substituted phenolic compounds?

☐

Yes

☒

No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF)

☐

Yes

☒

No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers:

☐

Single-phase

☒

Multi-phase

Container Type:

☐

Drum

☐

Tote

☐

Truck

☒

Other (explain)

Frequency:

☐

Weekly

☐

Monthly

☒

Yearly

☐

One-Time

Quantity:

50 Cubic Yard Box

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

Texas State Waste Code Number: CESQ5191

Class: UN/NA PG: RQ:

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
> 140		8.55		0 <u>mg/l</u>		0 <u>mg/l</u>		50 <u>%</u>	
Oil & Grease		TOC		Zinc		Copper		Nickel	
>1500	<u>mg/l</u>	BRL	<u>mg/l</u>	BRL	<u>mg/l</u>	BRL	<u>mg/l</u>	BRL	<u>mg/l</u>

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. Analysis

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	BRL
TCLP Volatiles:	BRL
TCLP Semi-Volatiles:	BRL
Reactivity:	Non-Reactive
Corrosivity:	Non-Corrosive
Ignitability:	Non-Ignitable

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES

☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: _____

Printed Name/Title: _____

General Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 7-29-09

☒ Approved

☐ Rejected

Approval Number: _____

3440



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$65 / ton or yard whichever is greater, \$70 / hr transportaiton

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

~~System 1~~ Class 1 solids box

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

--

Laboratory Analysis Report

Total Number of Pages: 9

Job ID : 09070577



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :
0709-42 Rolled Alloys / Hardy Rd.

Report To : Client Name: CES Environmental
Attn: Jenny Rust
Client Address: 4904 Griggs Rd
City, State, Zip: Houston, Texas, 77021

P.O.#.: 0709-42
Sample Collected By: Durim T.
Date Collected: 07/22/09

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
0709-42 Box Sample	Sludge	09070577.01

Shantall Carpenter

Released By: Shantall Carpenter
Title: Project Manager
Date: 7/28/2009



This Laboratory is NELAP (T104704213-09-TX) accredited. Effective: 07/01/2009; Expires: 06/30/2010
Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Date Received : 07/22/2009 14:45

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 09070577

Date: 7/28/2009

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

Qualifier Definition

S4	Surrogate not available due to dilution of sample extract for quantification.
----	---



LABORATORY TEST RESULTS

Job ID : 09070577

Date 7/28/2009

Client Name: CES Environmental

Attn: Jenny Rust

Project Name: 0709-42 Rolled Alloys / Hardy Rd.

Client Sample ID: 0709-42 Box Sample

Job Sample ID: 09070577.01

Date Collected: 07/22/09

Sample Matrix: Sludge

Time Collected: 13:15

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	TCLP Metals								
	Arsenic	BRL	mg/L	1	0.04	5.0		07/24/09 17:40	TK
	Barium	0.8502	mg/L	1	0.04	100.0		07/24/09 17:40	TK
	Cadmium	BRL	mg/L	1	0.04	1.0		07/24/09 17:40	TK
	Chromium	BRL	mg/L	1	0.04	5.0		07/24/09 17:40	TK
	Lead	BRL	mg/L	1	0.04	5.0		07/24/09 17:40	TK
	Selenium	BRL	mg/L	1	0.1	1.0		07/24/09 17:40	TK
	Silver	BRL	mg/L	1	0.04	5.0		07/24/09 17:40	TK
SW-846 7470A	TCLP Metals, Mercury								
	Mercury	BRL	mg/L	1	0.0005	0.2		07/24/09 14:13	SS
SW-846 9045D	Corrosivity, pH								
	pH	8.91	s.u.					07/24/09 10:30	RK
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12	BRL	mg/Kg	50	735			07/27/09 13:07	WS
	>C12-C28	15724	mg/Kg	50	920			07/27/09 13:07	WS
	>C28-C35	31194	mg/Kg	50	955			07/27/09 13:07	WS
	Total C6-C35	46918	mg/Kg	50				07/27/09 13:07	WS
	1-Chlorooctane(surr)	N/A	%	50	50-149		S4	07/27/09 13:07	WS
	Chlorooctadecane(surr)	N/A	%	50	50-149		S4	07/27/09 13:07	WS

QUALITY CONTROL CERTIFICATE



Job ID : 09070577

Date : 7/28/2009

Analysis : TCLP Metals, Mercury

Method : SW-846 7470A

Reporting Units : mg/L

QC Batch ID : Qb09072406

Created Date : 07/24/09

Created By : Ssrinivasan

Samples in This QC Batch : 09070577.01

Digestion : PB09072407

Prep Method : SW-846 7470A

Prep Date : 07/24/09 07:00 Prep By : Ssrinivasan

TCLP Prep : PB09072419

Prep Method : SW-846 1311

Prep Date : 07/23/09 16:30 Prep By : Sgarcia

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Mercury	7439-97-6	BRL	mg/L	1	0.0005	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.005	0.00478	95.6	0.005	0.00490	98	2.5	20	71-143	

QC Type: MS and MSD

QC Sample ID: 09070490.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.005	0.00497	99.2						61-175	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09070577

Date : 7/28/2009

Analysis : Corrosivity, pH

Method : SW-846 9045D

Reporting Units : s.u.

QC Batch ID : Qb09072411

Created Date : 07/24/09

Created By : Rkurusup

Samples in This QC Batch : 09070577.01

QC Type: Duplicate

QC Sample ID: 09070543.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
pH	7.31	7.35	s.u.	0.5	5	

QC Type: LCS and LCSD

Parameter	LCS Assigned	LCS Result	LCSD Assigned	LCSD Result	RPD	RPD CtrlLimit	Tolerance	Qual
pH	4.00	4.02					3.95-4.05	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09070577

Date : 7/28/2009

Analysis : TCLP Metals

Method : SW-846 6010C

Reporting Units : mg/L

QC Batch ID : Qb09072438

Created Date : 07/24/09

Created By : Tkhuc

Samples in This QC Batch : 09070577.01

Digestion : PB09072438

Prep Method : SW-846 3010A

Prep Date : 07/24/09 11:00 Prep By : Tkhuc

TCLP Prep : PB09072419

Prep Method : SW-846 1311

Prep Date : 07/23/09 16:30 Prep By : Sgarcia

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Arsenic	7440-38-2	BRL	mg/L	1	0.04	
Barium	7440-39-3	BRL	mg/L	1	0.04	
Cadmium	7440-43-9	BRL	mg/L	1	0.04	
Chromium	7440-47-3	BRL	mg/L	1	0.04	
Lead	7439-92-1	BRL	mg/L	1	0.04	
Selenium	7782-49-2	BRL	mg/L	1	0.1	
Silver	7440-22-4	BRL	mg/L	1	0.04	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	2	2.058	103	2	2.041	102	0.8	20	80-120	
Barium	2	1.806	90.3	2	1.786	89.3	1.1	20	80-120	
Cadmium	2	1.909	95.5	2	1.894	94.7	0.8	20	80-120	
Chromium	2	1.829	91.5	2	1.813	90.7	0.9	20	80-120	
Lead	2	1.618	80.9	2	1.625	81.3	0.4	20	80-120	
Selenium	2	2.042	102	2	2	100	2.1	20	80-120	
Silver	2	1.977	98.9	2	1.958	97.9	1	20	80-120	

QC Type: MS and MSD

QC Sample ID: 09070490.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	BRL	2	2.057	102						45-138	
Barium	1.501	2	3.222	86.1						39-135	
Cadmium	BRL	2	1.927	96.3						56-125	
Chromium	BRL	2	1.776	88.6						52-125	
Lead	BRL	2	1.608	80.2						55-125	
Selenium	BRL	2	2.019	100						70-130	
Silver	BRL	2	1.996	99.8						26-148	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09070577

Date : 7/28/2009

Analysis : Total Petroleum Hydrocarbons

Method : TX 1005

Reporting Units : mg/Kg

QC Batch ID : Qb09072741 Created Date : 07/27/09

Created By : Dshen

Samples in This QC Batch : 09070577.01

Sample Preparation : PB09072721

Prep Method : TX 1005

Prep Date : 07/24/09 08:00 Prep By : Dshen

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
C6-C12		BRL	mg/Kg	1	14.7	
>C12-C28		BRL	mg/Kg	1	18.4	
>C28-C35		BRL	mg/Kg	1	19.1	
Total C6-C35		BRL	mg/Kg	1		

QC Type: LCS and LCSD


Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	500	511	102	500	490	98	4.2	20	75-125	
>C12-C28	500	500	100	500	483	96.6	3.5	20	75-125	
>C28-C35	500	412	82.4	500	408	81.6	1	20	75-125	

QC Type: MS and MSD

QC Sample ID: 09070606.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
C6-C12	BRL	500	521	104						75-125	
>C12-C28	BRL	500	509	102						75-125	
>C28-C35	BRL	500	455	89						75-125	

Refer to the Definition page for terms.

 10100 East Fwy (I-10) Ste. 100 Houston, TX 77029 713-453-6060 1-877-478-6060 Toll Free 713-453-6091 Fax ablabs.com	1. REPORT TO: Company: CES ENVIRONMENTAL Address: 4904 GRIMES ROAD HOUSTON, TX 77021 Contact: JENNY RUST Phone: (713) 676-1460 Fax: (713) 676-1676 E-mail: jrust@cesenvironmental.com		2. INVOICE TO: Company: SAME Address: Contact: Phone: Fax: E-mail:		3. PO # 0709-42				
	A&B JOB ID # 09070577		4. Turnaround Time (Business Days) <input type="checkbox"/> 1 Day* <input checked="" type="checkbox"/> Other <input type="checkbox"/> 2 Days* 5 DAYS <input type="checkbox"/> 3 Days* *Surcharge applies <input type="checkbox"/> 7 Days - Standard						
5. Project #									
6. Project Name/Location ROLLED AWAYS / HARDY RD.									
7. Reporting Requirement: <input type="checkbox"/> TRRP Limits only <input type="checkbox"/> TRRP Rpt. Package <input type="checkbox"/> See Attached <input type="checkbox"/> Standard Level II									
8. Sampler's Name & Company (PLEASE PRINT) Durim TAGLAS / CES Sampler's Signature & Date [Signature] 7/22									
LAB USE ONLY	9. Sample ID and Description		10. Sampling		11. 12. Matrix				
	Date	Time	Comp. Grab	Water Soil Sludge Oil Air Other					
No. of Containers	0709-42 BOR SAMPLE		7/22	1:15P	✓	13. 14. Containers* 15. Preservatives** 16. PH-Lab Only 17. Analyses/Methods TECP METALS PH TPH 18. REMARKS			
19. RELINQUISHED BY		DATE	TIME	20. RECEIVED BY		DATE	TIME	22. KNOWN HAZARDS/COMMENTS	
1 [Signature]		7/22	2:45P	21. RECEIVED BY LABORATORY [Signature]		7/22/09	1445	Temperature: 33.9 °C	
2								Intact: Y or N Initials [Signature]	
3									
*Containers: VOA - 40 ml vial 4 oz/8 oz - glass wide mouth		A/G - Amber/Glass 1 Liter P/O - Plastic/other		**Preservatives: C - Cool H - HCl N - HNO ₃ S - H ₂ SO ₄ OH - NaOH T - Na ₂ S ₂ O ₃ X - Other					
METHOD OF SHIPMENT		BILL OF LADING/TRACKING #							
LAB USE ONLY SAMPLING		RENTAL		P/U					

A&B cannot accept verbal changes
Please FAX written changes to 713-453-6091
Samples will be disposed of after 30 days
A&B reserves the right to return samples



Sample Condition Checklist

Date : 07/28/09

A&B JobID :	09070577	Date Received :	07/22/2009	Time Received :	2:45PM							
Client Name :	CES Environmental											
Temperature :	33.9°C	Sample pH :	n/a									
Check Points												
				Yes	No							
1.	Cooler seal present and signed.				N/A							
2.	Sample(s) in a cooler.				X							
3.	If yes, ice in cooler.				X							
4.	Sample(s) received with chain-of-custody.				X							
5.	C-O-C signed and dated.				X							
6.	Sample(s) received with signed sample custody seal.				N/A							
7.	Sample containers arrived intact. (If no comment).				X							
8.	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other
:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Sample(s) were received in appropriate container(s).				X							
10.	Sample(s) were received with proper preservative				N/A							
11.	All samples were logged or labeled.				X							
12.	Sample ID labels match C-O-C ID's				X							
13.	Bottle count on C-O-C matches bottles found.				X							
14.	Sample volume is sufficient for analyses requested.				X							
15.	Samples were received within the hold time.				X							
16.	VOA vials completely filled.				N/A							
17.	Sample accepted.				X							
Comments : Include actions taken to resolve discrepancies/problem:												
Sample cooling initiated in the field.												

Received by : Mgonzalez

Check in by/date : Ruwadia / 07/22/2009

3441
Smith International



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Material / Product Approval Letter

Date 7/30/2009

Dear Mike Boozer MC-35

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3441

Expiration Date 7/30/2011

Producer: Smith International
Address: 16740 Hardy Street
Houston, TX 77032

Material / Product Information

Name of Material / Product Muratic Acid

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused gallon of muratic acid

Color: Brown

Odor: None

pH: <2

Physical State:

Incompatibilities: None

Safety Related Data/Special Handling:

Minimum of Level C PPE required

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Add to
Spread
sheet

JC
JR

Product
Handler



<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: Smith International
Address: 16740 Hardy Street
City: Houston State: TX Zip: 77032
Contact: Mike Boozer Title: _____
Phone Number: 281-233-5558 Fax Number: _____
24/hr Phone Number: 281-754-9682
US EPA ID No: TXCESQG
State ID No: CESQG SIC Code: _____

SECTION 2: Billing Information ☐ Same as Above

Company: Smith International
Address: P.O. Box 60068 16740 Hardy Street
City: Houston State: TX Zip: 77205-0068
Contact: Michael Boozer Title: HSE Manager
Phone Number: 281-233-5838 Fax Number: 281-233-5620

SECTION 3: General Description of the Waste

Name of Waste: Muratic Acid
Detailed Description of Process Generating Waste: _____

Unused gallon of Muratic Acid _____

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: Brown Odor: None

Specific Gravity (water=1): 1.3 Density: 1.18 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No
Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☒ One-Time

Quantity: 11-gal. container

☒ Yes ☐ No

If "Yes", is it: ☐ D001 (Ignitable) ☒ D002 (Corrosive) ☐ D003 (Reactive)
characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

Texas State Waste Code Number:

PRODUCT

Hydrochloric Acid, Solution

Class: **8 UN/NA:**

UN1789

PG :

H

RQ:

NONE 5000

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>140		<2		BRL mg/l		BRL mg/l		0 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
N/A	mg/l	BRL	mg/l	BRL	mg/l	BRL	mg/l	BRL	mg/l

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Minimum of Level C PPE Required

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list ALL Incompatibilities (if any):

None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals: BRL

TCLP Volatiles: BRL

TCLP Semi-Volatiles: BRL

Reactivity: Non-Reactive

Corrosivity: Non-Corrosive

Ignitability: > 200

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES

☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☒ Cyanide-containing wastes greater than 136 mg/l
- ☒ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oil Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
- Cadmium: 0.2 mg/L
 - Chromium: 8.9 mg/L
 - Copper: 4.9 mg/L
 - Nickel: 37.5 mg/L
- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
- ☐ Metals Subcategory
 - ☐ Oils Subcategory
 - ☐ Organics Subcategory

SECTION 10: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:

Michael Boozar

Date:

7-30-09

Printed Name/Title:

MICHAEL BOOZER SR. HSE/SMITH D & E

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: <u>Robert A. Kish</u>	
Date: <u>7-30-09</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected
Approval Number: <u>3441</u>	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

Call Joe Kemp for pricing info
\$20/gallon

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

For use in operations.

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

--



Material Safety Data Sheet (MSDS-HCL)

PRODUCT IDENTIFICATION	
Product Name	Hydrochloric Acid Solution 20 Deg. Be – 31.5% 22 Deg. Be – 35.2%
Trade Names and Synonyms	Hydrogen Chloride (Aqueous) Muriatic Acid
Manufacturer/Distributor	Trans Chem, Inc. 1415 Mengel Road Baton Rouge, Louisiana 70807 (504) 355-9977 Various others
Transportation Emergency	800-255-3924 (24 hrs -- CHEM • TEL)

HAZARDOUS COMPONENTS			
Material or Component	CAS No.	TLV	PEL
Hydrochloric Acid	7647-01-0	7mg/m ³	5PPM
N/A = Not assigned NE = Not established			

PHYSICAL DATA	
Boiling Point	127° F
Vapor Pressure	24mm Hg – 20 Deg. Be 100mm Hg – 22 Deg. Be
Solubility in Water	Complete
Specific Gravity	1.16 @ 15.5° C 20 Deg. Be 1.1789 @ 15.5° C 22 Deg. Be
Melting Point	N/A
Vapor Density	Similar to Water
Evaporation Rate	Not Applicable
Appearance and Odor	Clear Colorless to Yellowish Fuming Liquid, Pungent and Irritating

HAZARDOUS REACTIVITY	
Stable under ordinary conditions of use and storage. Does not polymerize. Incompatible with aluminum and aluminum alloys, carbon steel, copper and copper alloys, and nylon. Hydrogen gas will be formed if acid contacts metal.	

FIRE AND EXPLOSION DATA	
Flashpoint	Not Flammable
Extinguishing Media	Use any means suitable for extinguishing surrounding fire.
Decomposition Products	Contact with most metals may produce Hydrogen gas to potentially explosive limits.
Unusual Explosion	Containers may explode when heated. Consult the 2000 Emergency Response Guidebook, Guide 157 for further details.

HEALTH HAZARDS / FIRST AID	
Inhalation	Inhalation causes severe irritation of upper respiratory tract. FA: Remove person to fresh air. If not breathing, give artificial respiration. Call physician.
Ingestion	CORROSIVE ! Ingestion of Hydrochloric Acid can cause burns of the mouth, throat, esophagus and gastrointestinal tract. FA: DO NOT INDUCE VOMITING. Give large quantities of water or milk of magnesia. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Skin Contact	CORROSIVE ! Can cause redness, pain and skin burns. Can cause some tissue destruction. FA: Immediately flush with water.
Eye Contact	CORROSIVE ! FA: Continuously flush eyes with large amounts of water for at least 20 minutes. If irritation continues, seek medical attention.

SPILL OR LEAK PROCEDURES	
Spill/leak	In the event of a spill or leak, keep upwind. Ventilate enclosed areas until spill or leak is contained, neutralized and prepared for removal.
Waste disposal	Disposal of waste material or residue may be subject to federal, state, or local regulation. Before transporting waste material see 49 CFR 172.

SPECIAL PROTECTION INFORMATION	
Ventilation	Use only in areas with adequate ventilation.
Eye Protection	Use chemical safety goggles, plus a safety shield is recommended. Contact lenses should not be worn when working with this material.
Skin Protection	Wear impervious protective clothing; i.e., Boots, Gloves, Lab Coat, Apron or Coveralls to prevent skin contact.
Other	If working in an area of potential exposure, use an NIOSH approved respirator when material is fuming and exceeds the TLV.

STORAGE CONDITIONS	
Store and handle only in containers suitably lined with or constructed of materials specified, by the manufacturer, for the product. Protect against physical damage. Keep separated from incompatible materials.	

REGULATORY INFORMATION	
Proper shipping name	Hydrochloric acid
Hazard class	8
UN Number	UN1789
DOT Label & Placard	Corrosive
NFPA / HMIS Ratings	Health - 3; Flammability - 0; Reactivity - 0
SARA Title III	Reporting Sections 302, 311 & 313

The information contained in this Material Safety Data Sheet is based upon available data and believed to be correct; however, as such has been obtained from various sources, including the manufacturer and independent laboratories, it is given without warranty or representation that it is complete, accurate, and can be relied upon. *OWEN COMPLIANCE SERVICES, INC.* has not attempted to conceal in any manner the deleterious aspects of the product listed herein, but makes no warranty as to such. Further, *OWEN COMPLIANCE SERVICES, INC.* cannot anticipate nor control the many situations in which the product or this information may be used; there is no guarantee that the health and safety precautions suggested will be proper under all conditions. It is the sole responsibility of each user of the product to determine and comply with the requirements of all applicable laws and regulations regarding its use. This information is given solely for the purposes of safety to persons and property. Any other use of this information is expressly prohibited.

For further information contact:

David W. Boston, President
OWEN COMPLIANCE SERVICES, INC.
12001 County Road 1000
P.O. Box 765
Godley, TX 76044
Telephone number:
FAX number:

817-551-0660
817-396-4584

MSDS prepared by:

Allen M. Sweeney
Original publication date:
Revision date

8/5/1999
12/03/03

3442

Rio Tinto minerals



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/30/2009

Dear Michael Williams

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3442

Expiration Date 7/30/2011

Generator: Rio Tinto Minerals

Address: 17509 Van Rd.
Houston, TX 77049

Waste Information

Name of Waste: Oily filters

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Oily filters from basic maintenance operations

Color: Varies **Odor:** Slight hydrocarbon **pH:** Na

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

None

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
<http://www.cesenvironmental.com>

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

JB
JR

Recycle
Houston

SECTION 1: Generator Information

Company: Rio Tinto Minerals
Address: 17509 Van Rd. 17509 Van Rd.
City, State, Zip: Houston TX 77049
Contact: Michael Williams Title:
Phone No: (281) 272-7235 Fax: (281) 456-7816
24 / HR Phone:
U.S. EPA I.D. No: TXR050029
State I.D.: 20609 SIC Code:

SECTION 2: Billing Information

Company: Rio Tinto Minerals
Address: 17509 Van Rd. 17509 Van Rd.
City, State, Zip: Houston TX 77049
Contact: Michael Williams Title:
Phone No: (281) 272-7235 Fax: (281) 456-7816

SECTION 3: General Description of the Waste

Name of Waste: Oilly ~~parts~~ filters

Detailed Description of the Process Generating Waste:

oilly ~~parts~~ filters from basic maintenance operations

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: varies Odor: slight hydrocarbon

Specific Gravity (Water=1): na Density: na lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Layers: ☒ Single-Phase ☐ Multi-Phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size: 55

Number Of Units:

Is this a USEPA "Hazardous Waste" per 40 CFR 261.37 ☐ Yes ☒ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", is it: ☐ D001 ☐ D002 ☐ D003

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007
☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristics for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code No : _____ Recycle _____

Proper U.S. State Waste Code No : _____ Non-RCRA/Non-DOT Regulated Material

Class : na UN/NA : na PG : na RQ : na

Flash Point >200	pH na	Reactive Sulfides 0 mg/l	Reactive Cyanides 0 mg/l	Solids 100 %
Oil and Grease >100 mg/l	TOC 0 mg/l	Zinc 0 mg/l	Copper 0 mg/l	Nickel 400 mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The material / product consists of the following materials		Ranges are acceptable	or %
oil		2-10	%
pads/filters		90-98	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
none

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
generator knowledge

SECTION 7: Incompatibilities

Please list all Incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : ☒
TCLP Volatiles : ☒
TCLP Semi-Volatiles : ☒
Reactivity : ☒

Corrosivity : X
 Ignitability : X

SECTION 9: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 138 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations

☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 10: Additional Instruction

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: *Gene Harrison*

Date: 7/29/09

Printed Name / Title: HSE Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Process Facility Information :

Compliance Officer: *Robert Thang*

Date: 7-30-09

Status :

Approved

Rejected

Approval Number :

3442



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$351 DM

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Bulk to oil filter Reycler

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

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3443
Rio Tinto Minerals



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/30/2009

Dear Michael Williams

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3443

Expiration Date 7/30/2011

Generator: Rio Tinto Minerals

Address: 17509 Van Rd.
Houston, TX 77049

Waste Information

Name of Waste: Universal batteries

TCEQ Waste Code #: Univ

Container Type:

Detailed Description of Process Generating Waste:

Removal of old batteries

Color: Varies

Odor: none

pH: Na

Physical State:

Incompatibilities: None

Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.


**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021

Phone: (713) 676-1460 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

JB
JRUNIV
Houston**SECTION 1: Generator Information**

Company: Rio Tinto Minerals
 Address: 17509 Van Rd. 17509 Van Rd.
 City, State, Zip: Houston TX 77049
 Contact: Michael Williams Title:
 Phone No: (281) 272-7235 Fax: (281) 456-7816
 24 / HR Phone:
 U.S. EPA ID No: TXR050029
 State ID: 20609 SIC Code

SECTION 2: Billing Information

Company: Rio Tinto Minerals
 Address: 17509 Van Rd. 17509 Van Rd.
 City, State, Zip: Houston TX 77049
 Contact: Michael Williams Title:
 Phone No: (281) 272-7235 Fax: (281) 456-7816

SECTION 3: General Description of the Waste

Name of Waste: Universal batteries

Detailed Description of the Process Generating Waste:

Removal of old batteries

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: varies Odor: none

Specific Gravity (Water=1): na Density: na lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ NoDoes this material contain any para substituted phenolic compounds? ☐ Yes ☒ NoIs the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Layers: ☒ Single-Phase ☐ Multi-PhaseContainer Type: ☐ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size:

Number Of Units:

Is this a USEPA "Hazardous Waste" per 40 CFR 261.37? ☒ Yes ☐ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", is it: ☐ D001 ☐ D002 ☐ D003

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☒ D006 ☐ D007
☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristics for Toxic Organics: D012 thru D043 (please list all that apply) _____

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes: _____

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(a) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes: _____

Texas State Waste Code No : _____ UNIV _____

Proper U.S. State Waste Code No : _____ Environmentally hazardous substance, solid, n.o.s.

Class : 9 UN/NA : UN3077 PG : III RQ : na

Flash Point na	pH na	Reactive Sulfides na mg/l	Reactive Cyanides na mg/l	Solids 100 %
Oil and Grease na mg/l	TOC na mg/l	Zinc na mg/l	Copper na mg/l	Nickel na mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The material / product consists of the following materials		Ranges are acceptable	or %
batteries		100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator's knowledge

TCLP Metals : ☒
TCLP Volatiles : ☒
TCLP Semi-Volatiles : ☒
Reactivity : ☒

Corrosivity : ☒ XIgnitability : ☒ X**SECTION 9: Waste Receipt Classification Under 40 CFR 437**Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations

☐ Tank clean-out from organic, non-petroleum sources

1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 10: Additional Instruction

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [Signature]

Date: 7/29/09

Printed Name / Title: HSE Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Process Facility Information:

Compliance Officer: [Signature]

Date: 7-30-09

Status:

Approved

Rejected

Approval Number:

3443



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

Lead Acid - \$1.25/lb
Ni-cad / Alkaline - \$1.45/lb
Lithium - \$3.50/lb
Magnesium / Zinc - \$4.25/lb

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Can't & not for billing before billing for battery
also but Recycling.

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

--

3444
Rio Tinto Minerals



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/30/2009

Dear Michael Williams

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3444

Expiration Date 7/30/2011

Generator: Rio Tinto Minerals

Address: 17509 Van Rd.
Houston, TX 77049

Waste Information

Name of Waste: Fluorescent light bulbs

TCEQ Waste Code #: UNIV320H

Container Type:

Detailed Description of Process Generating Waste:

Burned out light bulbs

Color: White

Odor: none

pH: Na

Physical State:

Incompatibilities: None

Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.


**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
 Phone: (713) 676-1460 Fax: (713) 676-1676
<http://www.cesenvironmental.com>
 TCEQ Industrial Solid Waste Permit No: 30948
 U.S. EPA ID No: TXD008950461 ISWR No: 30900

JB
JR
UNIV
Houston

SECTION 1: Generator Information

Company: Rio Tinto Minerals
 Address: 17509 Van Rd, 17509 Van Rd.
 City, State, Zip: Houston TX 77049
 Contact: Michael Williams Title: _____
 Phone No: (281) 272-7235 Fax: (281) 456-7816
 24 / HR Phone: _____
 JS EPA I.D No: TXR050029
 State I.D: 20609 SIC Code: _____

SECTION 2: Billing Information

Company: Rio Tinto Minerals
 Address: 17509 Van Rd. 17509 Van Rd.
 City, State, Zip: Houston TX 77049
 Contact: Michael Williams Title: _____
 Phone No: (281) 272-7235 Fax: (281) 456-7816

SECTION 3: General Description of the Waste

Name of Waste: fluorescent light bulbs

Detailed Description of the Process Generating Waste:

burned out light bulbs

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: white Odor: none

Specific Gravity (Water=1): na Density: na lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Layers: ☒ Single-Phase ☐ Multi-Phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain) _____

Container Size: 55

Number Of Units: _____

Is this a USEPA "Hazardous Waste" per 40 CFR 261.3? ☐ Yes ☒ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is It: ☐ D001 ☐ D002 ☐ D003

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007
☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristics for Toxic Organics: D012 thru D043 (please list all that apply) _____

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes: _____

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes: _____

Texas State Waste Code No : UNIV320H

Proper U.S. State Waste Code No : Environmentally hazardous substance, solid (fluorescent bulbs)

Class : 9 UN/NA : UN3077 PG : III RQ : na

Flash Point na	pH na	Reactive Sulfides 0 mg/l	Reactive Cyanides 0 mg/l	Solids 100 %
Oil and Grease na mg/l	TOC na mg/l	Zinc 0 mg/l	Copper 0-10 mg/l	Nickel 0-10 mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
fluorescent light bulbs	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

level d

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
 none

SECTION 7: Incompatibilities

Please list all Incompatibilities (if any):

none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator's knowledge

TCLP Metals : X
 TCLP Volatiles : X
 TCLP Semi-Volatiles : X
 Reactivity : X

Corrosivity : X
 Ignitability : X

SECTION 9: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oil Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations

☐ Tank clean-out from organic, non-petroleum sources

1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 10: Additional Instruction

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: *Paul Harris*

Date: 7/29/09

Printed Name / Title: HSE Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Process Facility Information:

Compliance Officer: *Robert Thompson*

Date: 7-30-09

Status: Approved

Rejected

Approval Number:

3444



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

4' - \$1.25 / each	Shielded Fluorescent - \$1.90 / Each
5' - \$1.50 / each	U-bend / Circular - \$1.35 / each
Compacts - \$1.25 / each	Orbital - \$1.80 / each
	HID - \$1.70 / each

2. Contamination Limit (maximum limit before surcharges apply):

--

3. Surcharge Pricing:

--

4. Special Testing Requirements:

--

5. Treatment and Handling Protocol:

Back to light recycle after noting count for accounting

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

--

3445

Smiths Internationals

7E

T-35

LAB

8-4-09



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/30/2009

Dear **Mike Boozer MC-35**

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3445

Expiration Date 7/30/2011

Generator: Smith International
Address: 16740 Hardy Street
Houston, TX 77032

Waste Information

Name of Waste: Ethylene Glycol

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Used as an anti-freeze

Color: Pale Green

Odor: None

pH: Na

Physical State:

Incompatibilities: None

Safety Related Data/Special Handling:

Level D, with use of a half mask respirator with organics cartridge if airborne exposure limit is surpassed by ten.

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



JK
JR
Recycle
Houston

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: Smith International
Address: 16740 Hardy Street
City: Houston State: TX Zip: 77032
Contact: Mike Boozer Title: _____
Phone Number: 281-233-5558 Fax Number: _____
24/hr Phone Number: 281-794-9682
US EPA ID No: TXCESQG
State ID No: CESQG SIC Code: _____

SECTION 2: Billing Information ☐ Same as Above

Company: Smith International
Address: P.O. Box 68868 16740 Hardy Street
City: Houston State: TX Zip: 77205-0068
Contact: Michael Boozer Title: HSE Manager
Phone Number: 281-233-5838 Fax Number: 281-233-5620

SECTION 3: General Description of the Waste

Name of Waste: Ethylene Glycol
Detailed Description of Process Generating Waste: _____
Used as an anti-freeze _____

Physical Status: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: Pale Green Odor: None

Specific Gravity (water=1): 1.1 Density: 2.14 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☒ One-Time

Quantity: 15-gal. Container

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D, with use of a half mask respirator with organic cartridge if airborne exposure limit is surpassed by ten.

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	<u>BRL</u>
TCLP Volatiles:	<u>BRL</u>
TCLP Semi-Volatiles:	<u>BRL</u>
Reactivity:	<u>Non-Reactive</u>
Corrosivity:	<u>Non-Corrosive</u>
Ignitability:	<u>> 200</u>

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☒ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
- Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L
- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
- ☐ Metals Subcategory
 - ☐ Oils Subcategory
 - ☐ Organics Subcategory

SECTION 10: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:

Michael Boozar

Date:

7-30-09

Printed Name/Title:

MICHAEL BOOZER / SR. HSE SMITH D & E

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer:	<u>Rabih Dargatz</u>
Date:	<u>7-30-09</u>
Approval Number:	<u>3445</u>
<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Rejected



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$20 / 5 gal. bucket

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Recycle + Bk w/ other glycols.

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

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SMHN Reaycu profile
Intl.

MSDS Number: E5125 * * * * * Effective Date: 07/30/07 * * * * * Supersedes: 11/09/06



ETHYLENE GLYCOL

1. Product Identification

Synonyms: 1,2-Ethanediol; glycol; 1,2-Dihydroxyethane; Ethylene Alcohol; Ethulene Dihydrate

CAS No.: 107-21-1

Molecular Weight: 62.07

Chemical Formula: CH₂OHCH₂OH

Product Codes:

J.T. Baker: 5387, 5845, 9140, 9298, 9300, 9346, 9356, L715

Mallinckrodt: 5001, 5037

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Ethylene Glycol	107-21-1	99 - 100%	Yes

Ben Myers

3. Hazards Identification

Emergency Overview

WARNING! HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate (Life)

Flammability Rating: 1 - Slight
Reactivity Rating: 1 - Slight
Contact Rating: 3 - Severe (Life)
Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD;
PROPER GLOVES
Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation:

Vapor inhalation is generally not a problem unless heated or misted. Exposure to vapors over an extended time period has caused throat irritation and headache. May cause nausea, vomiting, dizziness and drowsiness. Pulmonary edema and central nervous system depression may also develop. When heated or misted, has produced rapid, involuntary eye movement and coma.

Ingestion:

Initial symptoms in massive dosage parallel alcohol intoxication, progressing to CNS depression, vomiting, headache, rapid respiratory and heart rate, lowered blood pressure, stupor, collapse, and unconsciousness with convulsions. Death from respiratory arrest or cardiovascular collapse may follow. Lethal dose in humans: 100 ml (3-4 ounces).

Skin Contact:

Minor skin irritation and penetration may occur.

Eye Contact:

Splashes may cause irritation, pain, eye damage.

Chronic Exposure:

Repeated small exposures by any route can cause severe kidney problems. Brain damage may also occur. Skin allergy can develop. May damage the developing fetus.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders, eye problems, or impaired liver, kidney, or respiratory function may be more susceptible to the effects of this substance.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physician:

Give sodium bicarbonate intravenously to treat acidosis. Urinalysis may show low specific gravity, proteinuria, pyuria, cylindruria, hematuria, calcium oxalate, and hippuric acid crystals. Ethanol can be used in antidotal treatment but monitor blood glucose when administering ethanol because it can cause hypoglycemia. Consider infusion of a diuretic such as mannitol to help prevent or control brain edema and hemodialysis to remove ethylene glycol from circulation.

5. Fire Fighting Measures

Fire:

Flash point: 111C (232F) CC

Autoignition temperature: 398C (748F)

Flammable limits in air % by volume:

lfl: 3.2; uel: 15.3

Slight to moderate fire hazard when exposed to heat or flame.

Explosion:

Above flash point, vapor-air mixtures are explosive within flammable limits noted above.

Containers may explode when involved in a fire.

Fire Extinguishing Media:

Dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Water spray may be used to extinguish surrounding fire and cool exposed containers. Water spray will also reduce fume and irritant gases.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Toxic gases and vapors may be released if involved in a fire.

6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Separate from acids and oxidizing materials. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

Ethylene Glycol [107-21-1]:

-ACGIH Short-Term Exposure Limit (STEL):

100 mg/m³ Ceiling (aerosol only)

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, a half-face respirator with an organic vapor cartridge and particulate filter (NIOSH type P95 or R95 filter) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece respirator with an organic vapor cartridge and particulate filter (NIOSH P100 or R100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. Please note that N series filters are not recommended for this material. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Clear oily liquid.

Odor:

Odorless.

Solubility:

Miscible in water.

Specific Gravity:

1.1 @20C/4C

pH:

No information found.

% Volatiles by volume @ 21C (70F):

100

Boiling Point:

197.6C (388F)

Melting Point:

-13C (9F)

Vapor Density (Air=1):

2.14

Vapor Pressure (mm Hg):

0.06 @ 20C (68F)

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide may form when heated to decomposition. May produce acrid smoke and irritating fumes when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong oxidizing agents. Reacts violently with chlorosulfonic acid, oleum, sulfuric acid, perchloric acid. Causes ignition at room temperature with chromium trioxide, potassium permanganate and sodium peroxide; causes ignition at 212F(100C) with ammonium dichromate, silver chlorate, sodium chloride and uranyl nitrate.

Conditions to Avoid:

Heat, flames, ignition sources, water (absorbs readily) and incompatibles.

11. Toxicological Information

Toxicological Data:

Oral rat LD50: 4700 mg/kg; skin rabbit LD50: 9530 mg/kg.

Irritation - skin rabbit: 555mg(open), mild; eye rabbit: 500mg/24H, mild.

Investigated as a tumorigen, mutagen, reproductive effector.

Reproductive Toxicity:

Has shown teratogenic effects in laboratory animals.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Ethylene Glycol (107-21-1)	No	No	None

12. Ecological Information

Environmental Fate:

When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is not expected to evaporate significantly. When released into water, this material is expected to readily biodegrade. When released into the water, this material is expected to have a half-life between 1 and 10 days. This material is not expected to significantly bioaccumulate. This material has a log octanol-water partition coefficient of less than 3.0. When released into water, this material is not expected to evaporate significantly. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days.

Environmental Toxicity:

The LC50/96-hour values for fish are over 100 mg/l.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Ethylene Glycol (107-21-1)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----				
Ingredient	Korea	DSL	NDL	Phil.
Ethylene Glycol (107-21-1)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----

Ingredient	-SARA 302-		-----SARA 313-----	
	RQ	TPQ	List	Chemical Catg.
Ethylene Glycol (107-21-1)	No	No	Yes	No
-----\Federal, State & International Regulations - Part 2\-----				
Ingredient	-RCRA-		-TSCA-	
	CERCLA	261.33	8(d)	
Ethylene Glycol (107-21-1)	5000	No	No	

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
 SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
 Reactivity: No (Pure / Liquid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 1 Flammability: 1 Reactivity: 0

Label Hazard Warning:

WARNING! HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.

Label Precautions:

Do not breathe vapor or mist.
 Use only with adequate ventilation.
 Keep container closed.
 Avoid contact with eyes, skin and clothing.
 Wash thoroughly after handling.

Label First Aid:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. Call a physician if irritation develops or persists. If swallowed, give water or milk to drink and induce vomiting. Never give anything by mouth to an unconscious person. In all cases call a physician.

Product Use:

Laboratory Reagent.

Revision Information:

MSDS Section(s) changed since last revision of document include: 8.

Disclaimer:

Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

Prepared by: Environmental Health & Safety
Phone Number: (314) 654-1600 (U.S.A.)

3409
Hydrochem Industrial Services



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/6/2009

Dear

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3409

Expiration Date 7/6/2011

Generator: Hydrochem Industrial Services Inc
Address: Hydrochem Industrial Services, Inc.
Deer Park, TX 77536

Waste Information

Name of Waste: Out of date carbonate

TCEQ Waste Code #: 00113191

Container Type:

Detailed Description of Process Generating Waste:

Off spec/ out of date sodium carbonate product

Color: White

Odor: None

pH: 4-10

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



IS
Houston DC/LS

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: Hydrochem Industrial Services
Address: 620 Howard Drive
City: Deer Park State: TX Zip: 77536
Contact: Larry Phillips Title: Operations Manager
Phone Number: 281-279-8436 Fax Number: 281-479-8982
24/hr Phone Number: _____
US EPA ID No: TXCESQG
State ID No: CESQG SIC Code: NA

SECTION 2: Billing Information - ☐ Same as Above

Company: Hydrochem Industrial Services
Address: PO Box 820
City: Deer Park State: TX Zip: 77536
Contact: _____ Title: _____
Phone Number: _____ Fax Number: _____

SECTION 3: General Description of the Waste

Name of Waste: Out of date carbonate
Detailed Description of Process Generating Waste: _____
Off spec/out of date sodium carbonate product

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination
Color: white Odor: none

Specific Gravity (water=1): 0.86-1.12 Density: 7.17-9.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☒ One-Time

Quantity: _____

EPAHO109000231

Is this a USEPA “Hazardous Waste” per 40CFR 261.3?

☐ Yes ☒ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Metals:

☐ D004

☐ D005

D006

☐ D007

 D008

☐ D009☐ D010

☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one?

☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

☐ Yes☒ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number:

00113191

Proper US DOT Shipping Name:

Non RCRA Non DOT Regulated Material

Class: NA

UN/NA:

NA

PG :

NA

RQ:

NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>150		4-10		NA <u>mg/l</u>		NA mg/l		0-2 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
<1500	<u>mg/l</u>	1000	<u>mg/l</u>	<u>mg/l</u>			<u>mg/l</u>	<u>mg/l</u>	

SECTION 4: Physical and Chemical Data

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. MSDS

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

none known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	<u>X</u>
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	<u>X</u>
Corrosivity:	<u>X</u>
Ignitability:	<u>X</u>

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES

☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
- Cadmium: 0.2 mg/L
 - Chromium: 8.9 mg/L
 - Copper: 4.9 mg/L
 - Nickel: 37.5 mg/L
- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
- ☐ Metals Subcategory
 - ☐ Oils Subcategory
 - ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: 6/16/09

Printed Name/Title: _____

LAURENCE T. PHILLIPS JR BRANCH MANAGER

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: <u>Robert D. Thang</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected
Date: 7-2-09	
Approval Number: _____	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$45.00/drum plus freight

2. Contamination Limit (maximum limit before surcharges apply):

NA

3. Surcharge Pricing:

NA

4. Special Testing Requirements:

NA

5. Treatment and Handling Protocol:

Put in class 2 solids box

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

NA

8. Management for Product Recovered/Recycled (if applicable)

NA

MATERIAL SAFETY DATA SHEET



Page: 1

DATE PREPARED: 12/22/2000

MSDS No: M223

Sodium Bicarbonate

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Sodium Bicarbonate
Product Description: Sodium Bicarbonate
Product Code: M223
Product Name: Sodium Bicarbonate
Molecular Formula: NaHCO_3
Generic Name: Baking Soda, Sodium Hydrogen Carbonate

MANUFACTURER:

HydroChem Industrial Services, Inc.
900 Georgia Ave.
Deer Park, TX 77536
Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE NUMBERS:

Emergency Contact: HydroChem ER
Emergency Phone: (800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

	wt. %	CAS Registry #
Sodium Bicarbonate	100	144-55-8

COMMENTS:

Exposure limits for this product are not established. A TLV of 10 mg/m³ is recommended for dust.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

White powder

IMMEDIATE CONCERNS:

No hazard in normal industrial use.
Dust may be slightly irritating to eyes and respiratory tracts.

MEDICAL CONDITIONS AGGRAVATED:

None known

ROUTES OF ENTRY:

Skin and eye contact and inhalation



Page: 2

DATE PREPARED: 12/22/2000

MSDS No: M223

Sodium Bicarbonate

4. FIRST AID MEASURES

EYES:

Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:

Immediately wash with soap and water. Rinse thoroughly. Seek medical attention if effects occur. Launder contaminated shoes and clothing before reuse.

INGESTION:

If swallowed, give 2 glasses of milk (preferred) or water and consult physician.

INHALATION:

Remove to fresh air. See a doctor if effects occur.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not Applicable

Flammable Limits: Not Applicable

Autoignition Temperature: None

EXTINGUISHING MEDIA:

Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

FIRE FIGHTING EQUIPMENT:

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Scoop into appropriate containers.

Flush residual with plenty of water.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Refer to Section 8.



Page: 3

DATE PREPARED: 12/22/2000

MSDS No: M223

Sodium Bicarbonate

STORAGE:

No special precautions required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation - General and local ventilation are required.

PERSONAL PROTECTION

EYES AND FACE:

Chemical goggles required and an eye wash in work area.

RESPIRATORY:

None normally needed. For protection from dust, use NIOSH approved respirator with dust protection.

PROTECTIVE CLOTHING:

Clean body covering and chemical resistant gloves.

OTHER USE PRECAUTIONS:

Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: White

pH: 8.3

Percent Volatile: None

Vapor Pressure: Not Determined

Vapor Density: Not Determined

Melting Point: 140°F 60°C

Solubility in Water: 7 at 20°C

Specific Gravity: 2.16 (water=1)

COMMENTS:

pH: for a 1% solution

Water Solubility: Solubility listed above is grams per 100 grams.

10. STABILITY AND REACTIVITY

STABLE: Yes



Page: 4

DATE PREPARED: 12/22/2000

MSDS No: M223

Sodium Bicarbonate

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:
Carbon dioxide and sodium hydroxide.

INCOMPATIBLE MATERIALS:
Strong acids

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Irritant. May cause pain, redness, discomfort.

Skin: No effect expected. Prolonged or repeated contact may cause mild irritation.

Ingestion: No effect expected. Swallowing large amounts may cause illness.

Inhalation: No effect expected. Prolonged or repeated exposure may cause mild irritation. Dust is irritating.

TARGET ORGANS:

None known.

GENERAL COMMENTS:

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

COMMENTS:

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

LD50 (rats) = 4220 mg/kg

RTECS Number: VZ0950000

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability: Not biodegradable.

Fish Toxicity: Low toxicity to fish expected.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Dispose of in accordance with ALL applicable federal, state and local regulations.



Page: 5
DATE PREPARED: 12/22/2000
MSDS No: M223
Sodium Bicarbonate

EMPTY CONTAINER:

Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sending to a sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:

This material is not a RCRA regulated material.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Proper Shipping Name: Sodium Bicarbonate – Not Regulated
Reportable Quantity (RQ) Under CERCLA: None
Placards: None
Label: None

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No Pressure Generating: No Reactivity: No Acute: No Chronic: No

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Reportable Spill Quantity: Not established

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

16. OTHER INFORMATION

REASON FOR ISSUE:

Biannual review

Approval date: 11/03/2000



Page: 6
DATE PREPARED: 12/22/2000
MSDS No: M223
Sodium Bicarbonate

REVISION SUMMARY

Revision #: 3

This MSDS replaces the November 13, 1998 MSDS. Any changes in information are as follows:

In Section 1

Approved by Reason for Issue Date Prepared

In Section 3

Physical Appearance Medical Conditions Aggravated Routes of Entry

In Section 9

Melting Temperature °F (from) Melting Temperature °C (from)

In Section 11

Target Organ

In Section 12

Ecological Comments

In Section 15

Fire Accute SARA Title III Notes

In Section 16

HMIS Health NFPA Health

NFPA CODES

Fire: 0 Health: 1 Reactivity: 0

HMIS CODES

Fire: 0 Health: 1 Reactivity: 0

MANUFACTURER DISCLAIMER:

[™] Indicates a trade or service mark of HydroChem Industrial Services, Inc.

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by HydroChem Industrial Services, Inc. regarding the accuracy or completeness of the information.

HydroChem Industrial Services, Inc. shall not be held liable for any damage resulting from the handling, or from contact with the above product.

3420

Praxair



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/9/2009

Dear

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3420

Expiration Date 7/9/2011

Generator: Praxair (Deer Park)

Address: 622 Tidal Road
Deer Park, TX 77536

Waste Information

Name of Waste: Gasoline

TCEQ Waste Code #: Recycalc

Container Type:

Detailed Description of Process Generating Waste:

Unused gasoline from underground storage tank

Color: Brown

Odor: Gasoline

pH: neutral

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000244

Recycle
Houston



<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: Praxair Inc
Address: 622 Tidal Road
City: Deer Park State: TX Zip: 77536
Contact: Kiranmai Valluri Title: _____
Phone Number: 281-954-1867 Fax Number: _____
24/hr Phone Number: _____
US EPA ID No: TXD008073421
State ID No: _____ SIC Code: 30296

SECTION 2: Billing Information - ☐ Same as Above

Company: Praxair Inc
Address: 175 EAST PARK DRIVE
City: TONAWANDA State: NY Zip: 14151
Contact: KEYONNA WILLIS Title: ACCOUNTS PROCESSING
Phone Number: 716-879-2574 Fax Number: 716-879-3345

SECTION 3: General Description of the Waste

Name of Waste: Gasoline
Detailed Description of Process Generating Waste:
unused gasoline from underground storage tank

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: brown Odor: gasoline

Specific Gravity (water=1): 0.85 Density: 8 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☒ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☒ One-Time

Quantity: 300 gallons

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Recycle

Gasoline, 3, UN1203, PG-II

UN1203 PG: II RQ: NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
<140		neutral		0 <u>mg/l</u>		0 <u>mg/l</u>		<1 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
>1500	<u>mg/l</u>	>1500	<u>mg/l</u>	0	<u>mg/l</u>	0	<u>mg/l</u>	0	<u>mg/l</u>

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package.

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

None known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES

☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Michael R. Mustion Date: 07-08-09

Printed Name/Title: Michael R. Mustion SES specialist

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: <u>Robert E. Thangar</u>	
Date: <u>7-8-09</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected
Approval Number: _____	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$95.00/tote plus field service charges

2. Contamination Limit (maximum limit before surcharges apply):

NA

make sure the material conforms to the profile.

3. Surcharge Pricing:

NA

4. Special Testing Requirements:

Check compatability with lightends

5. Treatment and Handling Protocol:

mix with lightends

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

NA

8. Management for Product Recovered/Recycled (if applicable)

NA

3421 Industries
127c

01d



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/9/2009

Dear **Debbie Topor**

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3421

Expiration Date 7/9/2011

Generator: Old World Industries DBA ZXP Technologies

Address: 409 East Wallisville Road
Highlands, TX 77562

Waste Information

Name of Waste: Unused Liquid Product - Geniosil GF 20

TCEQ Waste Code #: FM252191

Container Type:

Detailed Description of Process Generating Waste:

Product no longer needed

Color: colourless to yellowish **Odor:** slight

pH: 5-9

Physical State:

Incompatibilities: WATER, HUMIDITY CREATES ETHANOL

Safety Related Data/Special Handling:

LEVEL D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

#3421

JR
JCOL
Houston

4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
<http://www.cesenvironmental.com>

TCEQ Industrial Solid Waste Permit Number: 30948

U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1: Generator Information

Company: Old World Industries DBA ZXP Technologies
Address: 409 East Wallisville Road
City: Highlands State: TX Zip: 77562
Contact: Debbie Topor Title: Senior Transportation Manager
Phone Number: 847-559-2193 Fax Number: 847-664-7193
24/hr Phone Number: 224-628-9914
US EPA ID No: TXP490349904
State ID No: XXX12 SIC Code:

SECTION 2: Billing Information - ☐ Same as Above

Company: Old World Industries
Address: 4065 Commercial Ave.
City: Northbrook State: IL Zip: 60062
Contact: Debbie Topor Title:
Phone Number: 847-559-2193 Fax Number: 847-664-7193

SECTION 3: General Description of the Waste

Name of Waste: Unused Liquid Product - Geniosil GF 20

Detailed Description of Process Generating Waste:

Product no longer needed

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: colourless to yellowish

Odor: Slight

Specific Gravity (water=1): 1.09

Density: 9 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ NoDoes this material contain any para substituted phenolic compounds? ☐ Yes ☒ NoIs the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phaseContainer Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☒ One-Time

Quantity: 5

☐ Yes ☒ No

If "Yes", is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

☐ Yes ☒ No☐ Yes ☒ No

FM252191

N/A

N/A

N/A

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. MSDS

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

Water, Humidity creates Ethanol

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	<u>BRL</u>
TCLP Volatiles:	<u>BRL</u>
TCLP Semi-Volatiles:	<u>BRL</u>
Reactivity:	<u>Non-Reactive</u>
Corrosivity:	<u>Non-Corrosive</u>
Ignitability:	<u>Non-Ignitable</u>

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES

☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: _____

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 7-9-09

☒ Approved

☐ Rejected

Approval Number: _____



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$65 / DM for disposal, \$70 / hr + FSC w/ 4 hr min.

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

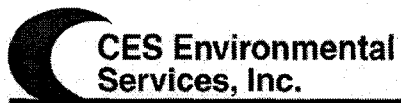
4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Bulk to Newpark

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

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WACKER SILICONES

RMA876

Material Safety Data Sheet

Material: GENIOSIL® GF 20

Version: 1.9 (US)

Date of print: 08/30/2004

Date of last alteration: 08/27/2004

1 Product and company identification**1.1 Identification of the substance or preparation:**

Commercial product name: GENIOSIL® GF 20
Product group: Intermediate
Use of substance / preparation: Industrial.
Intermediate chemical

1.2 Company/undertaking identification:

Manufacturer/distributor: Wacker-Chemie GmbH
Hanns-Seidel-Platz 4
81737 München
Germany

Customer information: Wacker Chemical Corporation
3301 Sutton Road
Adrian, Michigan 49221-9397
USA
Customer Care Center:
Tel (517) 264-8240, Fax (517) 264-8740
Hours of operation:
Monday - Friday, 8 am to 5 pm (eastern standard time)
Corporate website: www.wackersilicones.com

Emergency telephone no. (24h): (517) 264-8500
Transportation emergency: (800) 424-9300 (CHEMTREC, USA)
(703) 527-3887 (CHEMTREC, international)
(613) 996-6666 (CANUTEC, Canada)

This MSDS was prepared by the Regulatory Affairs and Product Safety Department (RAPS) of Wacker Chemical Corporation.

2 Composition/information on ingredients**2.1 Chemical characterization (substance):**

CAS No.	Chemical characteristics
93642-68-3	Dihydro-3-(3-(triethoxysilyl)propyl)-2,5-furandione

2.2 Information on ingredients:

Type	CAS No.	Substance	Content [wt. %]		Note
			Lower	Upper	
INHA	93642-68-3	3-Triethoxysilylpropyl succinic acid anhydride	>=100.0	<=100.0	
NEBE	64-17-5	Ethanol	varies	varies	

Type: HYD - by-product upon hydrolysis, INHA - ingredient, NEBE - by-product, MONO - residual monomer, VERU - impurity, VUL - by-product upon vulcanization. *** Note: C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, NH - non-hazardous, R - reproductive toxin.

This material does not contain any OSHA or WHMIS reportable hazardous ingredients.

Substances listed in the Subsections HAPS and California Proposition 65 Carcinogens / Reproductive Toxins that are not listed in Section 2 are only present at quantities below 0.1% or they are inextricably bound in the product.

WACKER SILICONES**Material Safety Data Sheet**

Material: GENIOSIL® GF 20

Version: 1.9 (US)

Date of print: 08/30/2004

Date of last alteration: 08/27/2004

3 Hazards identification**3.1 Hazards classifications**

HMIS® rating (product as packaged):

Health: 1

Fire: 1

Reactivity: 1

PPE: B

Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association. Note: Respiratory protection is only recommended in the event that ventilation or engineering controls are unable to maintain exposures below recommended levels; or in the event of a spill or other emergency response situation. (HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.)

Canadian WHMIS Classification: None.

3.2 Emergency overview and potential hazards

This material is not hazardous under OSHA criteria. This material is not hazardous under WHMIS criteria.

Physical Hazards:

No known physical hazards.

Acute health effects

Route of entry or possible contact:

eyes, skin, inhalation, ingestion.

Eye contact:

May cause slight eye irritation.

Skin contact:

May cause slight skin irritation.

Inhalation:

No acute toxic effects are known.

Ingestion:

Not expected in industrial use.

Additional information on acute health effects:

This material releases ethanol (ethyl alcohol) upon hydrolysis. Ethanol (CAS-No. 64-17-5) is an irritant to the eyes and mucous membranes. Overexposure has been shown to cause central nervous system depression. Direct contact with the eyes will cause burning and stinging. EPA statement: Skin sensitization can not be excluded based on structural activity relationship.

3.3 Further information:**Chronic health effects:**

none known. See Sect. 3.2 "Additional information on acute health effects".

Medical conditions which may be aggravated by exposure:

unknown

Carcinogens/Reproductive toxins:

There are no carcinogenic ingredients present at or over 0.1% in this material. This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels.

See Section 11 for Toxicological Information, if any.

4 First-aid measures**4.1 General information:**

In cases of sickness seek medical advice (show label if possible).

4.2 After inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention. Designate the product.

4.3 After contact with the skin:

If contact with skin, wash skin with plenty of water or with water and soap. Remove contaminated clothing and shoes immediately. Get medical attention if symptoms occur. Clean contaminated clothing and shoes before reuse.

4.4 After contact with the eyes:

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min. Get medical attention immediately. Designate the product.

WACKER SILICONES**Material Safety Data Sheet****Material:** GENIOSIL® GF 20**Version:** 1.9 (US)**Date of print:** 08/30/2004**Date of last alteration:** 08/27/2004**4.5 After swallowing:**

If swallowed, give victim several glasses of water. Get medical attention immediately. Designate the product.

5 Fire-fighting measures**5.1 Flammable properties:**

Flash point.....	> 100 °C (> 212 °F)	Method (DIN 51758)
Boiling point / boiling range.....	152 °C (305 °F) at 0.4 hPa	
Lower explosion limit (LEL).....	not determined	
Upper explosion limit (UEL).....	not determined	
Ignition temperature	250 °C (482 °F)	(DIN 51794)
NFPA Hazard Class (comb./flam.liquid):	IIIB	

5.2 Fire and explosion hazards:

Hydrolyzes on contact with moisture releasing ignitable vapors. Consider possible formation of explosive mixtures with air, for example in uncleaned containers by moisture. Explosion limits for hydrolysis product: 3.5-15% v/v (ethanol)

5.3 Recommended extinguishing media:

water-mist, dry chemical, alcohol-resistant foam or carbon dioxide.

5.4 Unsuitable extinguishing media:

sharp water jet.

5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

Hazardous combustion products: carbon dioxide, carbon monoxide, silicon dioxide, ethanol and incompletely burnt hydrocarbons.

5.6 Fire fighting procedures:

Cool endangered containers with water. Fire fighters should wear full protective clothing including a positive pressure self-contained breathing apparatus.

6 Accidental release measures**6.1 Precautions:**

Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Avoid inhaling mists and vapours. If material is released indicate risk of slipping.

HAZWOPER PPE Level: D

6.2 Containment:

Prevent material from entering surface waters, drains or sewers and open soil. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

6.3 Methods for cleaning up:

Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Exhaust vapours.

6.4 Further information:

Eliminate all sources of ignition.

7 Handling and storage

WACKER SILICONES**Material Safety Data Sheet**

Material: GENIOSIL® GF 20

Version: 1.9 (US)

Date of print: 08/30/2004

Date of last alteration: 08/27/2004

7.1 Handling**Precautions for safe handling:**

Ensure adequate ventilation. Keep away from incompatible substances in accordance with section 10.2. Spilled substance increases risk of slipping.

Precautions against fire and explosion:

Vapours may form in closed rooms with air mixtures, leading to explosion in the presence of sources of ignition, even in empty, uncleaned vessels. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

7.2 Storage**Conditions for storage rooms and vessels:**

none known

Advice for storage of incompatible materials:

not applicable

Further information for storage:

Protect against moisture. Keep container tightly closed and store in a cool, well ventilated place.

8 Exposure controls and personal protection**1 Engineering controls****Ventilation:**

Use only with adequate ventilation.

Local exhaust:

recommended

8.2 Associate substances with specific control parameters such as limit values**Maximum airborne concentrations at the workplace**

CAS No.	Material	Type	mg/m ³	ppm	Dust fract.
64-17-5	Ethanol	OSHA PEL	1,900.0	1,000.0	
64-17-5	Ethanol	ACGIH TWA		1,000.0	

8.3 Personal protection equipment (PPE)**Respiratory protection:**

In case of long or strong exposure use a NIOSH approved respirator for: organic vapors .
Alternatively use a positive pressure, air-supplied respirator.

Hand protection:

butyl rubber protective gloves

Eye protection:

tight fitting chemical safety goggles

Other protective clothing or equipment:

protective clothing to cover exposed areas of arms, legs and torso . Provide work station with emergency shower and eye-bath.

8.4 General hygiene and protection measures:

Avoid breathing dust/vapor/mist/gas/aerosol. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when handling. Wash thoroughly after handling.

9 Physical and chemical properties**9.1 Appearance**

Physical state / form..... liquid

Colour..... colourless - yellowish

Odour..... slight

9.2 Safety parameters

Melting point / melting range..... < -30 °C (< -22 °F)

Boiling point / boiling range..... 152 °C (305 °F) at 0.4 hPa

Flash point..... > 100 °C (> 212 °F)

Ignition temperature 250 °C (482 °F)

Lower explosion limit (LEL)..... not determined

Method

(DIN 51758)

(DIN 51794)

WACKER SILICONES**Material Safety Data Sheet**

Material: GENIOSIL® GF 20

Version: 1.9 (US)

Date of print: 08/30/2004

Date of last alteration: 08/27/2004

Upper explosion limit (UEL).....: not determined
Vapour pressure.....: < 1 hPa at 20 °C (68 °F)
Density.....: 1.09 g/cm³ at 25 °C (77 °F) (DIN 51757)
Water solubility / miscibility.....: virtually insoluble
pH-Value.....: not determined
Viscosity (dynamic).....: 20 - 35 mPa*s at 25 °C (77 °F)

9.3 Further information

Re 9.2 solubility in water: Hydrolytic decomposition occurs. Explosion limits for released ethanol: 3.5 - 15%(V).

10 Stability and reactivity**10.0 General information:**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.1 Conditions to avoid:

moisture

10.2 Materials to avoid:

Reacts slowly with: water . Reaction causes the formation of: ethanol . Reacts with: basic substances . Reaction causes the formation of: heat .

10.3 Hazardous decomposition products:

Under the effect of humidity, water and protic agents: ethanol .

10.4 Further information:

Hazardous polymerization cannot occur.

11 Toxicological information**11.1 General information:**

Toxicological testing has been conducted with this material.

11.2 Toxicological data:

Acute toxicity (LD50/LC50-values relevant to classification):

Exposition	Value/value range	Species	Source
oral	> 2000 mg/kg	rat (Limit Test)	test report

Primary irritation:

Exposition	Effect	Species/Testsystem	Source
to skin	mildly irritating	rabbit	test report
to eyes	mildly irritating	rabbit	test report

Reference points for mutagenic (carcinogenic) potential:

Test system	Effect	Source
Bacterial Reverse Mutation Test	not mutagenic	test report

12 Ecological information**12.1 Information on elimination (persistence and degradability)**

Biodegradation / further information:

The hydrolysis product (Ethanol) is easily biologically degradable.

Further information:

By hydrolysis: ethanol and silanol- and/or siloxanol-compounds . Silicone content: Elimination by adsorption in activated sludge.

12.2 Behaviour in environmental compartments

Mobility

Further information:

WACKER SILICONES**Material Safety Data Sheet****Material:** GENIOSIL® GF 20**Version:** 1.9 (US)**Date of print:** 08/30/2004**Date of last alteration:** 08/27/2004**12.3 Ecotoxicological effects:**

Species	Test method	Exp. Time	Result	Source
zebra fish (Brachydanio rerio)	acute	96 h	>= 100 mg/l (NOEC)	test report
zebra fish (Brachydanio rerio)	acute	96 h	> 100 mg/l (LC50)	test report

Effects in sewage treatment plants (bacteria toxicity; respiration-/reproduction inhibition):

Test system	Exp. Time	Result	Source
sludge	3 h	819 mg/l (EC50)	test report
sludge	3 h	250 mg/l (EC20)	test report

Do not introduce large amounts into purification plants.

12.4 Further ecological information**Other harmful effects****General information:**

Prevent material from entering surface waters, drains or sewers and open soil.

13 Disposal considerations**13.1 Product disposal****Recommendation:**

Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

13.2 Packaging disposal**Recommendation:**

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

14 Transport information**14.1 US DOT & CANADA TDG SURFACE**

Valuation.....: Not regulated for transport

14.2 Transport by sea IMDG-Code

Valuation.....: Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR

Valuation.....: Not regulated for transport

15 Regulatory information**15.1 U.S. Federal regulations****TSCA inventory status and TSCA information:**

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:

This material does not contain any TSCA 12(b) regulated chemicals.

CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

SARA 302 HHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

This product does not present any SARA 311/312 hazards.

WACKER SILICONES**Material Safety Data Sheet****Material:** GENIOSIL® GF 20**Version:** 1.9 (US)**Date of print:** 08/30/2004**Date of last alteration:** 08/27/2004**SARA 313 Chemicals:**

This material does not contain any SARA 313 chemicals above de minimus levels.

HAPS:

This material does not contain any hazardous air pollutants.

15.2 U.S. State regulations**California Proposition 65 Carcinogens:**

This material does not contain any chemicals known to the state of California to cause cancer.

California Proposition 65 Reproductive Toxins:

This material does not contain any chemicals known to the state of California to cause reproductive effects.

Massachusetts Substance List:

This material contains no listed components.

New Jersey Right-to-Know Hazardous Substance List:

This material contains no listed components.

Pennsylvania Right-to-Know Hazardous Substance List:

This material contains no listed components.

5.3 Canadian regulations

This product has been classified in accordance with the Hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Hazard Classes:

None.

DSL Status:

This material or one or more of its components is not listed on the Canadian Domestic Substances List.

Non-DSL Chemicals:

CAS No.	Chemical	Upper limit wt. %
93642-68-3	3-Triethoxysilylpropyl succinic acid anhydride	100.0

Canadian Ingredient Disclosure List:

This material contains no listed components.

Canadian Ingredient Disclosure List:

This material contains no listed components.

15.4 Other international regulations**EU Risk Phrases:**

R-Phrase	Description
R-	-

EU Safety Phrases:

S-Phrase	Description
S-	-

Details of international registration status

Listed on the following inventories:

IECSC - China
ECL - Korea
AICS - Australia
EINECS - Europe

WACKER SILICONES**Material Safety Data Sheet****Material:** GENIOSIL® GF 20**Version:** 1.9 (US)**Date of print:** 08/30/2004**Date of last alteration:** 08/27/2004**16 Other information****16.1 Additional information:**

This Material Safety Data Sheet (MSDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This MSDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

16.2 Glossary of Terms:

ACGIH - American Conference of Governmental
Industrial Hygienists

DOT - Department of Transportation

hPa - Hectopascals

mPa*s - Milli Pascal-Seconds

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

Flash point determination methods

ASTM D56

ASTM D92, DIN 51376, ISO 2592

ASTM D93, DIN 51758, ISO 2719

ASTM D3278, DIN 55680, ISO 3679

DIN 51755

ppm - Parts per Million

SARA - Superfund Amendments and Reauthorization Act

STEL - Short Term Exposure Limit

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

WHMIS - Canadian Workplace Hazardous Materials
Identification System

Common name

Tagliabue (Tag) closed cup

Cleveland open cup

Pensky-Martens closed cup

Betaflash or Rapid closed cup

Abel-Pensky closed cup

16.3 Conversion table:

Pressure: 1 hPa * 0.75 = 1 mm Hg = 1 Torr; 1 bar = 1000 hPa

Viscosity: 1 mPa*s = 1 Centipoise (Cp)

3422

Quest Chemical



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/13/2009

Dear **Bruce Riffel**

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3422

Expiration Date 7/13/2011

Generator: Quest Chemical Corporation @ Texas Tile

Address: 1705 N. Oliver
Houston, TX 77007

Waste Information

Name of Waste: Off spec/out of date product

TCEQ Waste Code #: CESQ1191

Container Type:

Detailed Description of Process Generating Waste:

Off spec / out of date material removed from customers tank

Color: White

Odor: Mild ammonia

pH: Neutral

Physical State:

Incompatibilities: None known

Safety Related Data/Special Handling:

Standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



DC/LS
16 Houston

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: Quest Chemical Corporation @ Texas Tile
Address: 1705 N. Oliver
City: Houston State: TX Zip: 77007
Contact: Bruce Riffel Title: _____
Phone Number: 713-896-8188 Fax Number: 713-896-8644
24/hr Phone Number: _____
US EPA ID No: TXCESQ
State ID No: CESQ SIC Code: _____

SECTION 2: Billing Information - ☒ Same as Above

Company: Quest Chemical Corporation
Address: 12255 FM 529
City: Houston State: Tx Zip: 77041
Contact: Bruce Riffel Title: _____
Phone Number: 713-896-8188 Fax Number: 713-896-8644

SECTION 3: General Description of the Waste

Name of Waste: Off spec/out of date product - (FLOOR FINISH
Detailed Description of Process Generating Waste: _____

off spec/out of date material removed from customers tank

Physical State: ☒ Liquid ☒ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: white Odor: mild ammonia

Specific Gravity (water=1): 1.03 Density: 8.59 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☒ One-Time

Quantity: 2500-3000 gal

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

Texas State Waste Code Number:

CESQ1191

Non RCRA Non DOT Regulated material

Class: NA **UN/NA:** NA **PG :** NA **RQ:** NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>150		neutral		0 mg/l		0 mg/l		0-20 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
0	mg/l	>100	mg/l	0	mg/l	0	mg/l	0	mg/l

SECTION 4: Physical and Chemical Data

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. MSDS

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

none known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals: X

TCLP Volatiles: X

TCLP Semi-Volatiles: X

Reactivity: X

Corrosivity: X

Ignitability: X

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES

☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: 7-10-09

Printed Name/Title: _____

Bruce R. Felt

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 7-13-09

☒ Approved

☐ Rejected

Approval Number: _____



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$0.65/gallon plus freight

2. Contamination Limit (maximum limit before surcharges apply):

NA

3. Surcharge Pricing:

NA

4. Special Testing Requirements:

NA

5. Treatment and Handling Protocol:

redirect to landfill as class 1 liquids

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

NA

8. Management for Product Recovered/Recycled (if applicable)

NA

=====

MATERIAL SAFETY DATA SHEET (SUBSTITUTES FOR OSHA FORM 174): May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

=====

PRODUCT NUMBER: 718

IDENTITY: DEEP GLOSS 18

Revision Date: 01/16/2007

Section I

Manufacturer's Name: QUEST CHEMICAL CORPORATION
Address: 12255 FM 529
NORTHWOODS INDUSTRIAL PARK
HOUSTON
State: TX Zip Code: 77041

Telephone Numbers:
Emergency: 800/255-3924
Information: 713/8968188

HMIS CODES: REACTIVITY: 0 FLAMMABILITY: 0 HEALTH: 0 PERSONAL PROTECT: A

Section II: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION (All of the ingredients contained in this product are listed on the TSCA inventory.)

=====

Name	Cas No.	OSHA PEL	ACGIH TLV	OTHER LIM	%
NONHAZARDOUS					
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comment:

THIS PRODUCT IS CLASSIFIED AS NONHAZARDOUS IN ACCORDANCE
WITH THE HAZARD COMMUNICATION STANDARD, 29CFR 1910.1200

Section III: PHYSICAL/CHEMICAL CHARACTERISTICS

=====

Boiling Point:	212	Specific Gravity (water=1)	1.03
Vapor Pressure (mm Hg)	18	Melting Point:	N/A
Vapor Density (AIR=1)	N/A	Evaporation Rate:	>1
Solubility in Water:	100%	(Butyl Acetate=1)	
Appearance and Odor:	WHITE LIQUID, MILD AMMONIA ODOR		

Section IV: FIRE AND EXPLOSION HAZARD DATA

=====

Flash Point (Method Used): NONE Flammable Limits: LEL: N/A UEL: N/A
Extinguishing Media: NONE
Special Fire Fighting Procedures: NONE

Unusual Fire and Explosion Hazards: NONE

Section V: REACTIVITY DATA

PRODUCT NUMBER: 718

Stability: Unstable: Conditions to avoid:
Stable: X NONE KNOWN
Incompatibility (Materials to Avoid): NONE KNOWN

Hazardous Decomposition or Byproducts: NONE KNOWN

Hazardous Polymerization: May Occur: Will Not Occur: X
Conditions to Avoid: NONE KNOWN

Section VI: HEALTH HAZARD DATA

Routes of Entry: Inhalation: NO Skin: YES Ingestion: YES
Health Hazards (Acute and Chronic):
INGESTION: NAUSEA. EYES: MILD IRRITATION. SKIN: MAY CAUSE MILD IRRITATION.

Carcinogenicity: NTP: NO IARC Monographs: NO OSHA Reg: NO
Signs and Symptoms of Exposure: SEE HEALTH HAZARDS

Medical Conditions Generally Aggravated by Exposure: NONE KNOWN

Emergency and First Aid Procedures: INGESTION: GIVE WATER AND CONTACT
PHYSICIAN. EYES: FLUSH WITH WATER AND CONTACT PHYSICIAN. SKIN: WASH
THOROUGHLY WITH SOAP AND WATER AND CONTACT PHYSICIAN IF IRRITATION
PERSISTS.

Section VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: TRANSFER PRODUCT
TO SOUND CONTAINER. RINSE ANY SPILLED PRODUCT DOWN WITH EXCESS WATER. AVOID
LETTING THE PRODUCT DRY AS IT MAY BE DIFFICULT TO REMOVE. IF PRODUCT DRIES
SWEEP OR SCRAPE RESIDUE OFF FLOOR.

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND
LOCAL GUIDELINES. SMALL AMOUNTS OF WASTE MAY BE DISPOSED OF BY DILUTING
WITH LARGE QUANTITIES OF WATER.

Precautions to be Taken in Handling and Storing: STORE IN A COOL DRY AREA.
KEEP CONTAINER TIGHTLY SEALED. KEEP OUT OF REACH OF CHILDREN. AVOID
OVERHEATING OF DRUMS OR STORAGE TANKS. AVOID FREEZING.

Other Precautions: N/A

Section VIII: CONTROL MEASURES

Respiratory Protection: N/A

Ventilation: Local Exhaust: N/A

Mechanical: N/A

Special: N/A

Other: N/A

Protective Gloves: N/A

Eye Protection: SAFETY GLASSES ARE RECOMMENDED WHENEVER CHEMICALS ARE USED.

Other Protective Clothing or Equipment:

N/A

Work/Hygienic Practices:

WASH HANDS AFTER USE.

3423
Bioselect Fuels



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/14/2009

Dear Nelson Fetgatter

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3423

Expiration Date 7/14/2011

Generator: Bioselect Fuels, Inc

Address: 4800 Old Port Industrial Rd
Galveston, TX

Waste Information

Name of Waste: Used BioDiesel Filters

TCEQ Waste Code #: Recycle

Container Type: 25 yd. box

Detailed Description of Process Generating Waste:

Filters were used to filter the biodiesel from tank #1 to tank #2

Color: Yellowish

Odor: Mild

pH: Na

Physical State:

Incompatibilities: See MSDS

Safety Related Data/Special Handling:

PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
<http://www.cesenvironmental.com>

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

40 /mm
Recycle
Houston

SECTION 1: Generator Information

Company: BioSelect (Galveston Bay BioDiesel)
Address: 4828 Old Port Industrial Road
City, State, Zip: Galveston, Texas 77554
Contact: Steve Sams Title: Auth. Broker For Generator
Phone No: 281-838-3400 Fax No: 281-424-7748
24/hr Phone: 281-838-3400
U.S. EPA I.D. No: TXR000079137
State I.D. 88510 SIC Code:

SECTION 2: Billing Information - ☐ Same as Above

Company: Phoenix Pollution Control & Environmental Services, Inc.
Address: 4808 Fairmont Parkway #274
City, State, Zip: Pasadena, Texas 77505
Contact: Connie Fetgatter Title: Accounting
Phone No: 281-838-3400 Fax No: 281-424-7748

SECTION 3: General Description of the WasteName of Waste: Used BioDiesel FiltersDetailed Description of Process Generating Waste: Filters were used to filter the biodiesel from tank #1 to tank #2.

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: YellowishOdor: MildSpecific Gravity (water=1): N/ADensity: N/A lbs/galDoes this material contain any total phenolic compounds? ☐ Yes ☒ NoDoes this material contain any para substituted phenolic compounds? ☐ Yes ☒ NoLayers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)
Container Size: _____ 25 Yd. Box

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ YearlyNumber of Units (containers): 3 Other: _____

Texas State Waste Code No:

Proper U.S. DOT Shipping Name:

Class: NA

UN/NA:

NA

PG:

NA

RQ:

NA

Used Filters Recycle Non RCRA / Non DOT Regulated Material (Oily Filter)

Flash Point N/A	pH N/A	Reactive Sulfides N/Amg/l	Reactive Cyanides N/Amg/l	Solids 100%
Oil&Grease N/Amg/l	TOC N/Amg/l	Zinc N/Amg/l	Copper N/Amg/l	Nickel N/Amg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Filters		100%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

PPE

MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

PPE

see MSDS

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: 7/14/09

Printed Name/Title: STEVE SIMS / AUTH. SIGNER FOR GENERATOR.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: <u>[Signature]</u>	
Date: <u>7-14-09</u>	Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>
Approval Number: _____	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

**PROCESS FACILITY INFORMATION (CES USE ONLY!!)****1. Base Pricing (including freight):**

\$95/yard

2. Contamination Limits (maximum limit before surcharges apply):**3. Surcharge Pricing:****4. Special Testing Requirements:****5. Treatment and Handling Protocol:**

Take to Oily Filters Disposal facility

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable):

--



Organic Fuels

RENEWABLE FUEL SOLUTIONS

Revision: 001 Issued: June 30, 2006

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

General Product Name: Biodiesel

Product Description: Blend

Synonyms: Methyl Soyate, Rapeseed Methyl Ester, Methyl Tallowate, Fatty Acid Methyl Ester, Vegetable Oil Methyl Ester, Methyl Ester, Palm Kernel Oil Methyl Ester

CAS Numbers: Methyl Soyate: 67784-80-9
Rapeseed Methyl Ester: 73891-99-3
Methyl Tallowate: 61788-71-2
Vegetable Fatty Acid Methyl Ester: 68990-52-3
C14-18 & C16-18
Unsaturated Alkylcarboxylic Acid Methyl Ester: 67762-26-9
Palm Kernel Fatty Acid Methyl Ester: 91051-32-0
Fatty acids, C8-C18, methyl ester: 68937-84-8
Methyl Laurate: 111-82-0
Methyl Myristate: 124-10-7
Methyl Oleate: 112-62-9
Methyl Palmitate: 112-39-0
Methyl Caprate: 110-42-9
Methyl Stearate: 112-61-8
Methyl Caprylate: 111-11-5

Company Information

Organic Fuels, LTD

One Riverway, Suite 2053

Houston, TX 77056

USA

Product Information: (713) 979-2600 Fax: (713) 456-2151

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product may contain 0%-100% of the Product identified above. This product contains no hazardous materials.

3. HAZARDS IDENTIFICATION

Potential Health Effects:

EYE CONTACT:

May cause eye irritation.

INHALATION:

Negligible at ambient temperature. Vapors produced by heating, or finely misted materials may irritate the mucous membranes and cause dizziness, and nausea.

SKIN CONTACT:

Prolonged or repeated contact is not likely to cause significant skin irritation. Thermal burns are possible on contact with material at elevated temperatures.

INGESTION:



No hazards are anticipated from ingestion incidental to industrial exposure.

4. FIRST AID MEASURES

EYES:

After initial flush, remove any contact lenses, and continue to flush eyes with water for at least 15 to 20 minutes. Seek medical attention if irritation develops or persists.

INHALATION:

Remove to fresh air. Seek medical attention if symptoms persist.

SKIN:

Wash affected areas of the body with soap and water.

INGESTION:

Give one or two glasses of water to drink. If gastro-intestinal symptoms develop, consult medical personnel. (Note: Never give anything by mouth to an unconscious person.)

5. FIRE FIGHTING MEASURES

Flammable Properties:

Flash Point (Method Used): 130.0° C min (ASTM 93)

Auto-ignition Temperature: N/A

Flammable Limits in Air:

LEL: N/A

UEL: N/A

Extinguishing Media:

Dry chemical, foam, halon, carbon dioxide, water spray (fog). Note: Water stream may splash the burning liquid and spread fire.

Special Fire Fighting Procedures:

Use water spray to cool drums exposed to fire.

Unusual Fire and explosion Hazards:

Oil soaked rags can cause spontaneous combustion if not handled properly. Before disposal, wash rags with soap and water and dry in well ventilated area.

Fire Fighting Instructions:

Evacuate non-emergency personnel to a safe area. Firefighters should use self-contained breathing apparatus to avoid exposure to smoke and vapor.

6. ACCIDENTAL RELEASE MEASURES SPILL CLEAN-UP PROCEDURES

Remove sources of ignition, contain spill to smallest area possible. Stop leak if possible. Pick up small spills with absorbent materials such as paper towels, "Oil Dry", sand or dirt.

Recover large spills for salvage or disposal. Wash hard surfaces with safety solvent or detergent to remove remaining oil film. Greasy nature will result in a slippery surface.

7. HANDLING AND STORAGE

Store in closed containers at temperatures between 50°F and 120°F, and keep away from oxidizing agents, excessive heat, and ignition sources. Store and use in well ventilated areas. Do not store or use near heat, spark, or flame. Store out of the sun.



Do not puncture, drag, or slide container. Drum is not a pressure vessel; never use pressure to empty.

Only use hoses and gaskets that are made of fluorinated polyethylene, fluorinated polypropylene, Teflon, Teflon lined, or Viton®. Use of nitrile, natural rubber, or Buna-N type rubbers, which are commonly found in fuel systems, is only allowed for blends of petroleum diesel with concentrations of biodiesel below 20%.

For blends higher than 20% biodiesel only steel, mild steel, stainless steel, aluminum, fluorinated polyethylene fluorinated polypropylene and fiberglass vessels are recommended. Use of tanks or lines made of brass, bronze, and copper or lead, tin, and zinc (i.e. galvanized) may cause sediment formation and filter clogging and are not recommended.

8. EXPOSURE CONTROL /PERSONAL PROTECTION

ENGINEERING CONTROLS:

Use only with adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

RESPIRATORY PROTECTION:

If vapors or mists are generated, wear a NIOSH approved organic vapor/mist respirator.

PROTECTIVE CLOTHING:

Safety glasses, goggles, or face shield recommended to protect eyes from mists or splashing. PVC coated gloves recommended to prevent skin contact.

OTHER PROTECTIVE MEASURES:

Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale Yellow Liquid with slight solvent smell
Odor:	Mild
Boiling Point:	>200°C
Vapor Pressure:	<2 mm Hg:
Vapor Density:	>1 (Air=1)
Solubility in Water:	Insoluble
Specific Gravity:	0.88 (Water=1)
% Volatiles:	<2% by Volume
Evaporation Rate:	<1 (Butyl Acetate=1)

10. STABILITY AND REACTIVITY

GENERAL:

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Avoid contact with strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCT:

Combustion produces carbon monoxide and carbon dioxide along with



thick smoke.

11. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Waste may be disposed of by a licensed waste disposal company. Contaminated absorbent material may be disposed of in an approved landfill. Follow local, state and federal disposal regulations.

12. TRANSPORT INFORMATION

UN HAZARD CLASS: N/A

This product is not regulated by the U.S. department of Transportation (DOT)

NMFC (National Motor Freight Classification):

PROPER SHIPPING NAME: Fatty acid ester

IDENTIFICATION NUMBER: 144920

SHIPPING CLASSIFICATION: 65

13. REGULATORY INFORMATION:

OSHA STATUS:

This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, thermal processing and decomposition fumes from this product may be hazardous as noted in Sections 2 and 3.

TSCA STATUS:

This product is listed on TSCA.

CERCLA (Comprehensive Response Compensation and Liability Act):

NOT reportable.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

Not Extremely Hazardous Substances under Section 312

Non-hazardous under Section 311/312

Not a Toxic Chemical under Section 313

RCRA STATUS:

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste, (40 CFR 261.20-24)

CALIFORNIA PROPOSITION 65:

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. This product contains no chemicals known to the state of California to cause cancer.

14. OTHER INFORMATION:

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to the best of the company's knowledge and believed accurate and



Organic Fuels

RENEWABLE FUEL SOLUTIONS

Revision: 001 Issued: June 30, 2006

reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

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Chromium: 8.9 mg/L

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Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

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\$95/yard

2. Contamination Limits (maximum limit before surcharges apply):**3. Surcharge Pricing:****4. Special Testing Requirements:****5. Treatment and Handling Protocol:**

Take to City Filters Disposal facility

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable):

--

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

General Product Name: Biodiesel

Product Description: Blend

Synonyms: Methyl Soyate, Rapeseed Methyl Ester, Methyl Tallowate, Fatty Acid Methyl Ester, Vegetable Oil Methyl Ester, Methyl Ester, Palm Kernel Oil Methyl Ester

CAS Numbers: Methyl Soyate: 67784-80-9
Rapeseed Methyl Ester: 73891-99-3
Methyl Tallowate: 61788-71-2
Vegetable Fatty Acid Methyl Ester: 68990-52-3
C14-18 & C16-18
Unsaturated Alkylcarboxylic Acid Methyl Ester: 67762-26-9
Palm Kernel Fatty Acid Methyl Ester: 91051-32-0
Fatty acids, C8-C18, methyl ester: 68937-84-8
Methyl Laurate: 111-82-0
Methyl Myristate: 124-10-7
Methyl Oleate: 112-62-9
Methyl Palmitate: 112-39-0
Methyl Caprate: 110-42-9
Methyl Stearate: 112-61-8
Methyl Caprylate: 111-11-5

Company Information

Organic Fuels, LTD
One Riverway, Suite 2053
Houston, TX 77056
USA
Product Information: (713) 979-2600 Fax: (713) 456-2151

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product may contain 0%-100% of the Product identified above. This product contains no hazardous materials.

3. HAZARDS IDENTIFICATION

Potential Health Effects:

EYE CONTACT:

May cause eye irritation.

INHALATION:

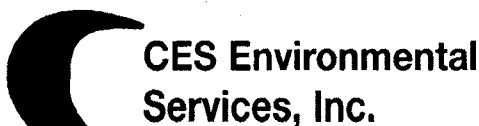
Negligible at ambient temperature. Vapors produced by heating, or finely misted materials may irritate the mucous membranes and cause dizziness, and nausea.

SKIN CONTACT:

Prolonged or repeated contact is not likely to cause significant skin irritation. Thermal burns are possible on contact with material at elevated temperatures.

INGESTION:

3427
Noltex



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/15/2009

Dear Control Room

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3427

Expiration Date 7/15/2011

Generator: Noltex

Address: 12220 Strang Road (Attn: Randy Boeding)
La Porte, TX 77571

Waste Information

Name of Waste: Non-hazardous filters (MeAc Feed Filters, East Filter Press Filt

TCEQ Waste Code #: 00053101

Container Type:

Detailed Description of Process Generating Waste:

Non-Haz filters, pads, and absorbent from EVOH manufacturing facility

Color: varies

Odor: alcohol

pH: 6-8

Physical State:

Incompatibilities: Strong oxidizers

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



fb/mm

IS
Houston

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: Noltex L.L.C
 Address: 12220 Strang Road
 City: LaPorte State: TX Zip: 77571
 Contact: L. Kristine Aparicio Title: FHS&S Manager
 Phone Number: 281-842-5065 Fax Number: 281-842-5097
 24/hr Phone Number: 281-842-5035
 US EPA ID No: TXR000011106
 State ID No: 84348 SIC Code: 2821, 2869

SECTION 2: Billing Information - ☒ Same as Above

Company: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Contact: _____ Title: _____
 Phone Number: _____ Fax Number: _____

SECTION 3: General Description of the Waste

Name of Waste: Non-Hazardous Filters (McAc Feed Filters, East Filter Press Filters, MeOH Feed Filters)

Detailed Description of Process Generating Waste:

Non-Haz Filters, Pads, and absorbent from EVOH manufacturing facility

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: varies Odor: alcohol

Specific Gravity (water=1): NA Density: NA lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2874	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☐ One-Time

Quantity: _____ 5

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

☐ Yes ☒ No

☐ Yes ☒ No

00053101

Class: NA UN/NA: NA PG : NA RQ: NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>212 deg F		6-8		< 100 <u>mg/l</u>		<20 <u>mg/l</u>		100 <u>%</u>	
Oil & Grease		TOC		Zinc		Copper		Nickel	
NA	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste

approval package. Materials sampled on 6/1/2009, 6/11/2009, 6/14/2009, and 6/15/2009 and

analyzed on 6/11/2009, 7/8/2009, and 7/10/2009.

SECTION 7: Incompatibilities

Please list ALL Incompatibilities (if any):

strong oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED**

based upon the following generator knowledge:

TCLP Metals: see attached analytical report

TCLP Volatiles: see attached analytical report

TCLP Semi-Volatiles: see attached analytical report

Reactivity: see attached analytical report

Corrosivity: see attached analytical report

Ignitability: see attached analytical report

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES

☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
- Cadmium: 0.2 mg/L
Chromium: 8.9 mg/l
Copper: 4.9 mg/L
Nickel: 37.5 mg/L
- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
- ☐ Metals Subcategory
 - ☐ Oils Subcategory
 - ☐ Organics Subcategory


SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Date: 7/15/09Printed Name/Title: Executive Vice PresidentRandall Boeding

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Date: 7-15-09☒ Approved☐ Rejected

Approval Number: _____



**CES Environmental
Services, Inc.**

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$65/drum + trans + fsc

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Class 1 Solids

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

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ANALYTICAL REPORT

Job Number: 600-12026-1

Job Description: Feed Filters TCLP, RCI, BTU 6/25/09

For:

Noltex LLC

12220 Strang Road

La Porte, TX 77571-9740

Attention: Ms. Joy Snodgrass

Neil A. Rodriguez

Approved for release.
Neil A Rodriguez
Project Manager II
7/8/2009 6:56 PM

Neil A Rodrigue
Project Manager II
neil.rodrigue@testamericainc.com
07/08/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-06-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

TestAmerica Laboratories, Inc.

TestAmerica Houston 6310 Rothway Street, Houston, TX 77040

Tel (713) 690-4444 Fax (713) 690-5646 www.testamericainc.com



SAMPLE SUMMARY

Client: Noltex LLC

Job Number: 600-12026-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
600-12026-1	# 326 MeOH Feed Filters	Solid	06/25/2009 0930	06/25/2009 1234
600-12026-2	# 323 MeAc Feed Filters	Solid	06/25/2009 0930	06/25/2009 1234
600-12026-3	# 327 MeOH Feed Filter	Solid	06/25/2009 0930	06/25/2009 1234

Ms. Joy Snodgrass
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 326 MeOH Feed Filters
Lab Sample ID: 600-12026-1

Date Sampled: 06/25/2009 0930
Date Received: 06/25/2009 1234
Client Matrix: Solid

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: TCLP-8260B			Date Analyzed:	06/30/2009	1530	
Prep Method: 5030B			Date Prepared:	06/30/2009	1530	
Benzene	22	U	ug/L	22	100	20
Carbon tetrachloride	22	U	ug/L	22	100	20
Chlorobenzene	18	U	ug/L	18	100	20
Chloroform	18	U	ug/L	18	100	20
1,2-Dichloroethane	22	U	ug/L	22	100	20
1,1-Dichloroethene	23	U	ug/L	23	100	20
2-Butanone (MEK)	32	U	ug/L	32	200	20
Tetrachloroethene	46	U	ug/L	46	100	20
Trichloroethene	26	U	ug/L	26	100	20
Vinyl chloride	32	U	ug/L	32	100	20
1,4-Dichlorobenzene	22	U	ug/L	22	100	20
Surrogate			Acceptance Limits			
4-Bromofluorobenzene	100		%		70 - 130	
Dibromofluoromethane	91		%		70 - 130	
Toluene-d8 (Surr)	104		%		70 - 130	
1,2-Dichloroethane-d4 (Surr)	89		%		70 - 130	
Method: TCLP-8270C			Date Analyzed:	07/01/2009	1620	
Prep Method: 3510C			Date Prepared:	06/30/2009	1202	
1,4-Dichlorobenzene	1.3	U	ug/L	1.3	10	1.0
2,4-Dinitrotoluene	0.95	U	ug/L	0.95	10	1.0
2,4,5-Trichlorophenol	1.3	U	ug/L	1.3	10	1.0
2,4,6-Trichlorophenol	0.92	U	ug/L	0.92	10	1.0
2-Methylphenol	1.0	U	ug/L	1.0	10	1.0
3 & 4 Methylphenol	1.9	U	ug/L	1.9	20	1.0
Hexachlorobenzene	0.90	U	ug/L	0.90	10	1.0
Hexachlorobutadiene	1.1	U	ug/L	1.1	10	1.0
Hexachloroethane	1.2	U	ug/L	1.2	10	1.0
Nitrobenzene	1.2	U	ug/L	1.2	10	1.0
Pentachlorophenol	0.89	U	ug/L	0.89	50	1.0
Pyridine	1.0	U	ug/L	1.0	10	1.0
Surrogate			Acceptance Limits			
Phenol-d6	43		%		10 - 94	
Nitrobenzene-d5	79		%		35 - 114	
2-Fluorophenol	56		%		21 - 100	
2-Fluorobiphenyl	79		%		43 - 116	
2,4,6-Tribromophenol	101		%		10 - 123	
Terphenyl-d14	79		%		33 - 141	

Ms. Joy Snodgrass
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 326 MeOH Feed Filters
Lab Sample ID: 600-12026-1

Date Sampled: 06/25/2009 0930
Date Received: 06/25/2009 1234
Client Matrix: Solid

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: TCLP-6010B			Date Analyzed:	07/02/2009	1518	
Prep Method: 3010A			Date Prepared:	07/02/2009	0906	
Pb	0.0029	U	mg/L	0.0029	0.010	1.0
Cr	0.0016	U	mg/L	0.0016	0.010	1.0
Cd	0.00073	U	mg/L	0.00073	0.0050	1.0
Ba	0.099	B	mg/L	0.0016	0.020	1.0
As	0.010	B	mg/L	0.0033	0.010	1.0
Ag	0.0012	U	mg/L	0.0012	0.010	1.0
Se	0.016	J B	mg/L	0.0042	0.040	1.0
Method: TCLP-7470A			Date Analyzed:	07/01/2009	1322	
Prep Method: 7470A			Date Prepared:	07/01/2009	0848	
Mercury	0.021	U	ug/L	0.021	0.20	1.0
Method: 7.4.4			Date Analyzed:	06/30/2009	1348	
Prep Method: 7.3.4			Date Prepared:	06/29/2009	1126	
Sulfide, Reactive	30	J	mg/Kg	14	50	1.0
Method: 9012			Date Analyzed:	06/30/2009	1424	
Prep Method: 7.3.3			Date Prepared:	06/29/2009	1126	
Cyanide, Reactive	18	U	ug/Kg	18	250	1.0

Ms. Joy Snodgrass
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 326 MeOH Feed Filters
Lab Sample ID: 600-12026-1

Date Sampled: 06/25/2009 0930
Date Received: 06/25/2009 1234
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 9045C pH	7.72 HF	SU	0.0100	0.0100	1.0
Method: D240-87 BTU	2800	BTU/lb	500	500	1.0
Method: D92 Flashpoint	>212	Degrees F	1.0	1.0	1.0

Ms. Joy Snodgrass
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 323 MeAc Feed Filters
Lab Sample ID: 600-12026-2

Date Sampled: 06/25/2009 0930
Date Received: 06/25/2009 1234
Client Matrix: Solid

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: TCLP-8260B			Date Analyzed:	06/30/2009	1556	
Prep Method: 5030B			Date Prepared:	06/30/2009	1556	
Benzene	22	U	ug/L	22	100	20
Carbon tetrachloride	22	U	ug/L	22	100	20
Chlorobenzene	18	U	ug/L	18	100	20
Chloroform	18	U	ug/L	18	100	20
1,2-Dichloroethane	22	U	ug/L	22	100	20
1,1-Dichloroethene	23	U	ug/L	23	100	20
2-Butanone (MEK)	32	U	ug/L	32	200	20
Tetrachloroethene	46	U	ug/L	46	100	20
Trichloroethene	26	U	ug/L	26	100	20
Vinyl chloride	32	U	ug/L	32	100	20
1,4-Dichlorobenzene	22	U	ug/L	22	100	20
Surrogate					Acceptance Limits	
4-Bromofluorobenzene	107		%		70 - 130	
Dibromofluoromethane	90		%		70 - 130	
Toluene-d8 (Surr)	103		%		70 - 130	
1,2-Dichloroethane-d4 (Surr)	87		%		70 - 130	
Method: TCLP-8270C			Date Analyzed:	07/01/2009	1653	
Prep Method: 3510C			Date Prepared:	06/30/2009	1202	
1,4-Dichlorobenzene	1.3	U	ug/L	1.3	10	1.0
2,4-Dinitrotoluene	0.95	U	ug/L	0.95	10	1.0
2,4,5-Trichlorophenol	1.3	U	ug/L	1.3	10	1.0
2,4,6-Trichlorophenol	0.92	U	ug/L	0.92	10	1.0
2-Methylphenol	1.0	U	ug/L	1.0	10	1.0
3 & 4 Methylphenol	1.9	U	ug/L	1.9	20	1.0
Hexachlorobenzene	0.90	U	ug/L	0.90	10	1.0
Hexachlorobutadiene	1.1	U	ug/L	1.1	10	1.0
Hexachloroethane	1.2	U	ug/L	1.2	10	1.0
Nitrobenzene	1.2	U	ug/L	1.2	10	1.0
Pentachlorophenol	0.89	U	ug/L	0.89	50	1.0
Pyridine	1.0	U	ug/L	1.0	10	1.0
Surrogate					Acceptance Limits	
Phenol-d6	41		%		10 - 94	
Nitrobenzene-d5	83	E	%		35 - 114	
2-Fluorophenol	54		%		21 - 100	
2-Fluorobiphenyl	79		%		43 - 116	
2,4,6-Tribromophenol	90	E	%		10 - 123	
Terphenyl-d14	85	E	%		33 - 141	

Ms. Joy Snodgrass
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 323 MeAc Feed Filters
Lab Sample ID: 600-12026-2

Date Sampled: 06/25/2009 0930
Date Received: 06/25/2009 1234
Client Matrix: Solid

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: TCLP-6010B			Date Analyzed:	07/02/2009	1522	
Prep Method: 3010A			Date Prepared:	07/02/2009	0906	
Pb	0.0029	U	mg/L	0.0029	0.010	1.0
Cr	0.0025	J B	mg/L	0.0016	0.010	1.0
Cd	0.00073	U	mg/L	0.00073	0.0050	1.0
Ba	0.21	B	mg/L	0.0016	0.020	1.0
As	0.0097	J B	mg/L	0.0033	0.010	1.0
Ag	0.0012	U	mg/L	0.0012	0.010	1.0
Se	0.015	J B	mg/L	0.0042	0.040	1.0
Method: TCLP-7470A			Date Analyzed:	07/01/2009	1332	
Prep Method: 7470A			Date Prepared:	07/01/2009	0848	
Mercury	0.021	U	ug/L	0.021	0.20	1.0
Method: 7.4.4			Date Analyzed:	06/30/2009	1348	
Prep Method: 7.3.4			Date Prepared:	06/29/2009	1126	
Sulfide, Reactive	40	J	mg/Kg	14	50	1.0
Method: 9012			Date Analyzed:	06/30/2009	1424	
Prep Method: 7.3.3			Date Prepared:	06/29/2009	1126	
Cyanide, Reactive	18	U	ug/Kg	18	250	1.0

Ms. Joy Snodgrass
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 323 MeAc Feed Filters
Lab Sample ID: 600-12026-2

Date Sampled: 06/25/2009 0930
Date Received: 06/25/2009 1234
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 9045C pH	7.66 HF	SU	0.0100	0.0100	1.0
Method: D240-87 BTU	21000	BTU/lb	500	500	1.0
Method: D92 Flashpoint	>212	Degrees F	1.0	1.0	1.0

Ms. Joy Snodgrass
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 327 MeOH Feed Filter
Lab Sample ID: 600-12026-3

Date Sampled: 06/25/2009 0930
Date Received: 06/25/2009 1234
Client Matrix: Solid

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: TCLP-8260B			Date Analyzed:		06/30/2009	1622
Prep Method: 5030B			Date Prepared:		06/30/2009	1622
Benzene	22	U	ug/L	22	100	20
Carbon tetrachloride	22	U	ug/L	22	100	20
Chlorobenzene	18	U	ug/L	18	100	20
Chloroform	18	U	ug/L	18	100	20
1,2-Dichloroethane	22	U	ug/L	22	100	20
1,1-Dichloroethene	23	U	ug/L	23	100	20
2-Butanone (MEK)	32	U	ug/L	32	200	20
Tetrachloroethene	46	U	ug/L	46	100	20
Trichloroethene	26	U	ug/L	26	100	20
Vinyl chloride	32	U	ug/L	32	100	20
1,4-Dichlorobenzene	22	U	ug/L	22	100	20
Surrogate				Acceptance Limits		
4-Bromofluorobenzene	101		%		70 - 130	
Dibromofluoromethane	87		%		70 - 130	
Toluene-d8 (Surr)	101		%		70 - 130	
1,2-Dichloroethane-d4 (Surr)	89		%		70 - 130	
Method: TCLP-8270C			Date Analyzed:		07/01/2009	1727
Prep Method: 3510C			Date Prepared:		06/30/2009	1202
1,4-Dichlorobenzene	1.3	U	ug/L	1.3	10	1.0
2,4-Dinitrotoluene	0.95	U	ug/L	0.95	10	1.0
2,4,5-Trichlorophenol	1.3	U	ug/L	1.3	10	1.0
2,4,6-Trichlorophenol	0.92	U	ug/L	0.92	10	1.0
2-Methylphenol	1.0	U	ug/L	1.0	10	1.0
3 & 4 Methylphenol	1.9	U	ug/L	1.9	20	1.0
Hexachlorobenzene	0.90	U	ug/L	0.90	10	1.0
Hexachlorobutadiene	1.1	U	ug/L	1.1	10	1.0
Hexachloroethane	1.2	U	ug/L	1.2	10	1.0
Nitrobenzene	1.2	U	ug/L	1.2	10	1.0
Pentachlorophenol	0.89	U	ug/L	0.89	50	1.0
Pyridine	1.0	U	ug/L	1.0	10	1.0
Surrogate				Acceptance Limits		
Phenol-d6	45		%		10 - 94	
Nitrobenzene-d5	86	E	%		35 - 114	
2-Fluorophenol	60		%		21 - 100	
2-Fluorobiphenyl	81	E	%		43 - 116	
2,4,6-Tribromophenol	97	E	%		10 - 123	
Terphenyl-d14	85	E	%		33 - 141	

Ms. Joy Snodgrass
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 327 MeOH Feed Filter
Lab Sample ID: 600-12026-3

Date Sampled: 06/25/2009 0930
Date Received: 06/25/2009 1234
Client Matrix: Solid

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: TCLP-6010B			Date Analyzed:	07/02/2009	1537	
Prep Method: 3010A			Date Prepared:	07/02/2009	0906	
Pb	0.0029	U	mg/L	0.0029	0.010	1.0
Cr	0.0016	U	mg/L	0.0016	0.010	1.0
Cd	0.00073	U	mg/L	0.00073	0.0050	1.0
Ba	0.11	B	mg/L	0.0016	0.020	1.0
As	0.011	B	mg/L	0.0033	0.010	1.0
Ag	0.0012	U	mg/L	0.0012	0.010	1.0
Se	0.017	J B	mg/L	0.0042	0.040	1.0
Method: TCLP-7470A			Date Analyzed:	07/01/2009	1334	
Prep Method: 7470A			Date Prepared:	07/01/2009	0848	
Mercury	0.021	U	ug/L	0.021	0.20	1.0
Method: 7.4.4			Date Analyzed:	06/30/2009	1348	
Prep Method: 7.3.4			Date Prepared:	06/29/2009	1126	
Sulfide, Reactive	30	J	mg/Kg	14	50	1.0
Method: 9012			Date Analyzed:	06/30/2009	1424	
Prep Method: 7.3.3			Date Prepared:	06/29/2009	1126	
Cyanide, Reactive	18	U	ug/Kg	18	250	1.0

Ms. Joy Snodgrass
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 327 MeOH Feed Filter
Lab Sample ID: 600-12026-3

Date Sampled: 06/25/2009 0930
Date Received: 06/25/2009 1234
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 9045C pH	6.98	HF	SU	Date Analyzed: 06/29/2009 0830 0.0100	0.0100 1.0
Method: D240-87 BTU	3600		BTU/lb	Date Analyzed: 07/07/2009 1645 500	500 1.0
Method: D92 Flashpoint	>212		Degrees F	Date Analyzed: 07/01/2009 1300 1.0	1.0 1.0

METHOD SUMMARY

Client: Noltex LLC

Job Number: 600-12026-1

Description		Lab Location	Method	Preparation Method
Matrix	Solid			
Volatile Organic Compounds (GC/MS)		TAL HOU	SW846 8260B	
	TCLP Extraction	TAL HOU		SW846 1311
	Purge and Trap	TAL HOU		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)		TAL HOU	SW846 8270C	
	TCLP Extraction	TAL HOU		SW846 1311
	Liquid-Liquid Extraction (Separatory Funnel)	TAL HOU		SW846 3510C
Metals (ICP)		TAL HOU	SW846 6010B	
	TCLP Extraction	TAL HOU		SW846 1311
	Preparation, Total Metals	TAL HOU		SW846 3010A
Mercury (CVAA)		TAL HOU	SW846 7470A	
	TCLP Extraction	TAL HOU		SW846 1311
	Preparation, Mercury	TAL HOU		SW846 7470A
Reactive Sulfide		TAL HOU	EPA 7.4.4	
	Sulfide, Reactive	TAL HOU		SW846 7.3.4
Cyanide, Reactive		TAL HOU	SW846 9012	
	Cyanide, Reactive	TAL HOU		SW846 7.3.3
Corrosivity		TAL HOU	SW846 9045C	
Heat of Combustion		TAL HOU	ASTM D240-87	
Flashpoint		TAL HOU	ASTM D92	

Lab References:

TAL HOU = TestAmerica Houston

Method References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Noltex LLC

Job Number: 600-12026-1

Method	Analyst	Analyst ID
SW846 8260B	Liu, Zaifang	ZFL
SW846 8270C	Sundquist, Trevor W	TWS
SW846 6010B	Patel, Silen R	SRP
SW846 7470A	Lige, Derrick C	DCL
EPA 7.4.4	Walker, Gerald (Gerry) C	GCW
SW846 9012	Walker, Gerald (Gerry) C	GCW
SW846 9045C	Puranik, Surendra U	SUP
ASTM D240-87	Puranik, Surendra U	SUP
ASTM D92	Puranik, Surendra U	SUP

QUALITY CONTROL RESULTS

Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Method Blank - Batch: 600-17167

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 600-17167/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/30/2009 1322
Date Prepared: 06/30/2009 1322

Analysis Batch: 600-17167
Prep Batch: N/A
Units: ug/L

Instrument ID: VOA-V
Lab File ID: H18104.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.1	U	1.1	5.0
Carbon tetrachloride	1.1	U	1.1	5.0
Chlorobenzene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	U	1.2	5.0
2-Butanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Vinyl chloride	1.6	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	70 - 130
Dibromofluoromethane	93	70 - 130
Toluene-d8 (Surr)	104	70 - 130
1,2-Dichloroethane-d4 (Surr)	90	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Method Blank - Batch: 600-17167

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 600-17167/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/30/2009 1347
Date Prepared: 06/30/2009 1347

Analysis Batch: 600-17167
Prep Batch: N/A
Units: ug/L

Instrument ID: VOA-V
Lab File ID: H18105.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.1	U	1.1	5.0
Carbon tetrachloride	1.1	U	1.1	5.0
Chlorobenzene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	U	1.2	5.0
2-Butanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Vinyl chloride	1.6	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0
Surrogate	% Rec	Acceptance Limits		
4-Bromofluorobenzene	105	70 - 130		
Dibromofluoromethane	94	70 - 130		
Toluene-d8 (Surr)	103	70 - 130		
1,2-Dichloroethane-d4 (Surr)	94	70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Lab Control Sample - Batch: 600-17167

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 600-17167/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/30/2009 1232
Date Prepared: 06/30/2009 1232

Analysis Batch: 600-17167
Prep Batch: N/A
Units: ug/L

Instrument ID: VOA-V
Lab File ID: H18102.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	46.7	93	69 - 124	
Carbon tetrachloride	50.0	45.3	91	57 - 134	
Chlorobenzene	50.0	46.8	94	70 - 129	
Chloroform	50.0	46.6	93	69 - 128	
1,2-Dichloroethane	50.0	43.8	88	65 - 134	
1,1-Dichloroethene	50.0	43.8	88	45 - 136	
2-Butanone (MEK)	100	103	103	53 - 140	
Tetrachloroethene	50.0	46.9	94	59 - 134	
Trichloroethene	50.0	47.2	94	68 - 130	
Vinyl chloride	50.0	43.7	87	38 - 153	
1,4-Dichlorobenzene	50.0	46.2	92	72 - 131	
Surrogate		% Rec		Acceptance Limits	
4-Bromofluorobenzene		94		70 - 130	
Dibromofluoromethane		100		70 - 130	
Toluene-d8 (Surr)		94		70 - 130	
1,2-Dichloroethane-d4 (Surr)		91		70 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Method Blank - Batch: 600-17108

Method: 8270C

Preparation: 3510C

Lab Sample ID: MB 600-17108/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/30/2009 1814
Date Prepared: 06/30/2009 1202

Analysis Batch: 600-17114
Prep Batch: 600-17108
Units: ug/L

Instrument ID: MSD1526
Lab File ID: A0630915.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.00 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
1,4-Dichlorobenzene	1.3	U	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,5-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2-Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachloroethane	1.2	U	1.2	10
Nitrobenzene	1.2	U	1.2	10
Pentachlorophenol	0.89	U	0.89	50
Pyridine	1.0	U	1.0	10
Surrogate	% Rec	Acceptance Limits		
Phenol-d6	49	10 - 94		
Nitrobenzene-d5	89	35 - 114		
2-Fluorophenol	70	21 - 100		
2-Fluorobiphenyl	92	43 - 116		
2,4,6-Tribromophenol	81	10 - 123		
Terphenyl-d14	104	33 - 141		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

TCLP SPLPE Leachate Blank - Batch: 600-17108

Method: 8270C

Preparation: 3510C

TCLP

Lab Sample ID: LB 600-17076/1-B

Analysis Batch: 600-17271

Instrument ID: MSD2348

Client Matrix: Solid

Prep Batch: 600-17108

Lab File ID: Z0701904.D

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 1000 mL

Date Analyzed: 07/01/2009 1512

Final Weight/Volume: 1.00 mL

Date Prepared: 06/30/2009 1202

Injection Volume: 1.0 uL

Date Leached: 06/29/2009 1400

Leachate Batch: 600-17076

Analyte	Result	Qual	MDL	RL
1,4-Dichlorobenzene	1.3	U	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,5-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2-Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachloroethane	1.2	U	1.2	10
Nitrobenzene	1.2	U	1.2	10
Pentachlorophenol	0.89	U	0.89	50
Pyridine	1.0	U	1.0	10

Surrogate	% Rec	Acceptance Limits
Phenol-d6	51	10 - 94
Nitrobenzene-d5	92	35 - 114
2-Fluorophenol	67	21 - 100
2-Fluorobiphenyl	86	43 - 116
2,4,6-Tribromophenol	91	10 - 123
Terphenyl-d14	90	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 600-17108**

**Method: 8270C
Preparation: 3510C**

LCS Lab Sample ID: LCS 600-17108/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/30/2009 1848
Date Prepared: 06/30/2009 1202

Analysis Batch: 600-17114
Prep Batch: 600-17108
Units: ug/L

Instrument ID: MSD1526
Lab File ID: A0630916.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.00 mL
Injection Volume: 1.0 uL

LCSD Lab Sample ID: LCSD 600-17108/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/30/2009 1922
Date Prepared: 06/30/2009 1202

Analysis Batch: 600-17114
Prep Batch: 600-17108
Units: ug/L

Instrument ID: MSD1526
Lab File ID: A0630917.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.00 mL
Injection Volume: 1.0 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,4-Dichlorobenzene	77	82	45 - 105	6	20		
2,4-Dinitrotoluene	86	96	61 - 162	11	20		
2,4,5-Trichlorophenol	77	85	59 - 123	9	20		
2,4,6-Trichlorophenol	75	82	30 - 143	9	20		
2-Methylphenol	74	75	34 - 109	2	20		
3 & 4 Methylphenol	80	77	27 - 113	4	20		
Hexachlorobenzene	88	87	62 - 121	2	20		
Hexachlorobutadiene	81	90	32 - 143	11	20		
Hexachloroethane	77	76	42 - 110	1	20		
Nitrobenzene	78	84	55 - 115	8	20		
Pentachlorophenol	64	76	44 - 142	17	20	J	J
Pyridine	39	44	10 - 109	12	40		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Phenol-d6	51	46	10 - 94
Nitrobenzene-d5	80	84	35 - 114
2-Fluorophenol	66	61	21 - 100
2-Fluorobiphenyl	85	88	43 - 116
2,4,6-Tribromophenol	92	98	10 - 123
Terphenyl-d14	96	96	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Method Blank - Batch: 600-17233

Method: 6010B

Preparation: 3010A

Lab Sample ID: MB 600-17233/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/02/2009 1507
Date Prepared: 07/02/2009 0906

Analysis Batch: 600-17258
Prep Batch: 600-17233
Units: mg/L

Instrument ID: TJA ICP 61E
Lab File ID: T070209
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Pb	0.0029	U	0.0029	0.010
Cr	0.0016	U	0.0016	0.010
Cd	0.00073	U	0.00073	0.0050
Ba	0.0016	U	0.0016	0.020
As	0.0033	U	0.0033	0.010
Ag	0.0012	U	0.0012	0.010
Se	0.0042	U	0.0042	0.040

TCLP SPLPE Leachate Blank - Batch: 600-17233

Method: 6010B

Preparation: 3010A

TCLP

Lab Sample ID: LB 600-17076/1-D
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2009 1515
Date Prepared: 07/02/2009 0906
Date Leached: 06/29/2009 1400

Analysis Batch: 600-17258
Prep Batch: 600-17233
Units: mg/L

Instrument ID: TJA ICP 61E
Lab File ID: T070209
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Leachate Batch: 600-17076

Analyte	Result	Qual	MDL	RL
Pb	0.0029	U	0.0029	0.010
Cr	0.0016	J	0.0016	0.010
Cd	0.00073	U	0.00073	0.0050
Ba	0.078		0.0016	0.020
As	0.0094	J	0.0033	0.010
Ag	0.0012	U	0.0012	0.010
Se	0.015	J	0.0042	0.040

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Lab Control Sample - Batch: 600-17233

Method: 6010B
Preparation: 3010A

Lab Sample ID: LCS 600-17233/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/02/2009 1511
Date Prepared: 07/02/2009 0906

Analysis Batch: 600-17258
Prep Batch: 600-17233
Units: mg/L

Instrument ID: TJA ICP 61E
Lab File ID: T070209
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Pb	1.00	1.03	103	80 - 120	
Cr	1.00	1.00	100	80 - 120	
Cd	0.500	0.521	104	80 - 120	
Ba	1.00	1.06	106	80 - 120	
As	1.00	1.04	104	80 - 120	
Ag	0.500	0.508	102	80 - 120	
Se	1.00	1.01	101	80 - 120	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 600-17233

Method: 6010B
Preparation: 3010A
TCLP

MS Lab Sample ID: 600-12026-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2009 1529
Date Prepared: 07/02/2009 0906
Date Leached: 06/29/2009 1400

Analysis Batch: 600-17258
Prep Batch: 600-17233

Instrument ID: TJA ICP 61E
Lab File ID: T070209
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 600-12026-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2009 1533
Date Prepared: 07/02/2009 0906
Date Leached: 06/29/2009 1400

Leachate Batch: 600-17076

Analysis Batch: 600-17258
Prep Batch: 600-17233

Instrument ID: TJA ICP 61E
Lab File ID: T070209
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.			RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD	Limit				
Pb	103	104	75 - 125	1	20		
Cr	97	98	75 - 125	1	20		
Cd	104	106	75 - 125	2	20		
Ba	103	102	75 - 125	1	20		
As	112	112	75 - 125	0	20		
Ag	108	108	75 - 125	0	20		
Se	116	115	75 - 125	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Duplicate - Batch: 600-17233

Method: 6010B

Preparation: 3010A

TCLP

Lab Sample ID: 600-12026-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2009 1526
Date Prepared: 07/02/2009 0906
Date Leached: 06/29/2009 1400

Analysis Batch: 600-17258
Prep Batch: 600-17233
Units: mg/L

Leachate Batch: 600-17076

Instrument ID: TJA ICP 61E
Lab File ID: T070209
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Pb	0.0029	U	0.0029	NC	20	U
Cr	0.0025	J	0.00254	2	20	J
Cd	0.00073	U	0.00073	NC	20	U
Ba	0.21		0.203	1	20	
As	0.0097	J	0.00923	5	20	J
Ag	0.0012	U	0.0012	NC	20	U
Se	0.015	J	0.0134	14	20	J

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Method Blank - Batch: 600-17151

Lab Sample ID: MB 600-17151/7-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/01/2009 1231
Date Prepared: 07/01/2009 0848

Analysis Batch: 600-17197
Prep Batch: 600-17151
Units: ug/L

Method: 7470A Preparation: 7470A

Instrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.021	U	0.021	0.20

TCLP SPLPE Leachate Blank - Batch: 600-17151

Lab Sample ID: LB 600-17076/1-C
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/01/2009 1320
Date Prepared: 07/01/2009 0848
Date Leached: 06/29/2009 1400

Analysis Batch: 600-17197
Prep Batch: 600-17151
Units: ug/L

Leachate Batch: 600-17076

Method: 7470A Preparation: 7470A TCLP

Instrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.021	U	0.021	0.20

Lab Control Sample - Batch: 600-17151

Lab Sample ID: LCS 600-17151/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/01/2009 1233
Date Prepared: 07/01/2009 0848

Analysis Batch: 600-17197
Prep Batch: 600-17151
Units: ug/L

Method: 7470A Preparation: 7470A

Instrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	3.00	2.94	98	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 600-17151

Method: 7470A
Preparation: 7470A
TCLP

MS Lab Sample ID: 600-12026-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/01/2009 1329
Date Prepared: 07/01/2009 0848
Date Leached: 06/29/2009 1400

Analysis Batch: 600-17197
Prep Batch: 600-17151

Leachate Batch: 600-17076

Instrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

MSD Lab Sample ID: 600-12026-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/01/2009 1330
Date Prepared: 07/01/2009 0848
Date Leached: 06/29/2009 1400

Analysis Batch: 600-17197
Prep Batch: 600-17151

Leachate Batch: 600-17076

Instrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	95	95	75 - 125	0	20		

Duplicate - Batch: 600-17151

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID: 600-12026-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/01/2009 1327
Date Prepared: 07/01/2009 0848
Date Leached: 06/29/2009 1400

Analysis Batch: 600-17197
Prep Batch: 600-17151
Units: ug/L

Leachate Batch: 600-17076

Instrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.021	U	0.021	NC	20	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Method Blank - Batch: 600-17032

Method: 7.4.4

Preparation: 7.3.4

Lab Sample ID: MB 600-17032/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/30/2009 1348
Date Prepared: 06/29/2009 1126

Analysis Batch: 600-17121
Prep Batch: 600-17032
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Sulfide, Reactive	14	U	14	50

Lab Control Sample - Batch: 600-17032

Method: 7.4.4

Preparation: 7.3.4

Lab Sample ID: LCS 600-17032/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/30/2009 1348
Date Prepared: 06/29/2009 1126

Analysis Batch: 600-17121
Prep Batch: 600-17032
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfide, Reactive	1840	1120	61	0 - 100	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Method Blank - Batch: 600-17032

Method: 9012
Preparation: 7.3.3

Lab Sample ID: MB 600-17032/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/30/2009 1424
Date Prepared: 06/29/2009 1126

Analysis Batch: 600-17124
Prep Batch: 600-17032
Units: ug/Kg

Instrument ID: WC05 Lachat-1
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Reactive	18	U	18	250

Lab Control Sample - Batch: 600-17032

Method: 9012
Preparation: 7.3.3

Lab Sample ID: LCS 600-17032/2-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 06/30/2009 1424
Date Prepared: 06/29/2009 1126

Analysis Batch: 600-17124
Prep Batch: 600-17032
Units: ug/Kg

Instrument ID: WC05 Lachat-1
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Reactive	1000000	52700	5	0 - 100	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Lab Control Sample - Batch: 600-17024

Method: 9045C
Preparation: N/A

Lab Sample ID: LCS 600-17024/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/29/2009 0830
Date Prepared: N/A

Analysis Batch: 600-17024
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.00	7.010	100	99 - 101	

Duplicate - Batch: 600-17024

Method: 9045C
Preparation: N/A

Lab Sample ID: 600-12026-3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/29/2009 0830
Date Prepared: N/A

Analysis Batch: 600-17024
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	6.98	6.970	0	1	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Method Blank - Batch: 600-17482

Method: D240-87

Preparation: N/A

Lab Sample ID: MB 600-17482/10
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/07/2009 1645
Date Prepared: N/A

Analysis Batch: 600-17482
Prep Batch: N/A
Units: BTU/lb

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0263 g
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
BTU	500	U	500	500

Lab Control Sample - Batch: 600-17482

Method: D240-87

Preparation: N/A

Lab Sample ID: LCS 600-17482/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/07/2009 1645
Date Prepared: N/A

Analysis Batch: 600-17482
Prep Batch: N/A
Units: BTU/lb

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 0.9875 g
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
BTU	11400	11200	98	90 - 110	

Duplicate - Batch: 600-17482

Method: D240-87

Preparation: N/A

Lab Sample ID: 600-12026-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/07/2009 1645
Date Prepared: N/A

Analysis Batch: 600-17482
Prep Batch: N/A
Units: BTU/lb

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0361 g
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
BTU	2800	3990	35	20	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Method Blank - Batch: 600-17227

Method: D92
Preparation: N/A

Lab Sample ID: MB 600-17227/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/01/2009 1300
Date Prepared: N/A

Analysis Batch: 600-17227
Prep Batch: N/A
Units: Degrees F

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Flashpoint	>186		1.0	1.0

Lab Control Sample - Batch: 600-17227

Method: D92
Preparation: N/A

Lab Sample ID: LCS 600-17227/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/01/2009 1300
Date Prepared: N/A

Analysis Batch: 600-17227
Prep Batch: N/A
Units: Degrees F

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 60 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Flashpoint	81.0	82.0	101	96.91 - 103.09	

Calculations are performed before rounding to avoid round-off errors in calculated results.

DATA REPORTING QUALIFIERS

Client: Noltex LLC

Job Number: 600-12026-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	F	Duplicate RPD exceeds the control limit
	HF	Field parameter with a holding time of 15 minutes
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Job Narrative
600-J12026-1

GC/MS Semi VOA

Method 8270C: Samples were double spiked with surrogate resulting in high results that exceed ICAL. %R for these surrogate were still within control limits.

No other analytical or quality issues were noted.

General Chemistry

Method D240-87: This sample is a very light material (nylon cloth), due to this the full aliquot of sample could not be used and a smaller aliquot of sample was analyzed.

No other analytical or quality issues were noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

Page: -

Loc: 600

12026

#1

600-12026-A-1

07/08/2009

TestAmerica Laboratories, Inc.

Customer Information		Project Information		Analysis/Methods	
PO:		Project Name:	Waste Disposal	A	TCLP-Volatiles (8260)
WO:		TAL Project No:	60000463	B	TCLP-Semivolatiles (8270)
Company:	Noltex, LLC	Bill To:	Noltex, LLC	C	TCLP-Metals (6010/7470)
Report to:	Joy Snodgrass	Invoice ATTN:	Joy Snodgrass	D	RCI
Address:	12220 Strang Road	Address:	12220 Strang Road	E	BTUs
	La Porte, TX 77571-9740		La Porte, TX 77571-9740	F	
				G	
E-mail:	Joy_Snodgrass@noltex.com		Joy_Snodgrass@noltex.com	H	
Phone:	281-842-5039	Phone:	281-842-5039	I	Other:
Fax:	281-842-5097	Fax:	281-842-5097	J	

No.	Sample Description	Preservation	Date	Time	Matrix	# Cont.	Comments	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	# 326 MeOH Feed Filter-S	NONE	6/25/09	9:30	Waste	3		X	X	X	X	X													
2	# 323 MeOH Feed Filter	NONE	6/25/09	9:30	Waste	3		X	X	X	X	X													
3	# 327 MeOH Feed Filter	NONE	6/25/09	9:30	Waste	3		X	X	X	X	X													
4																									
5																									
6																									
7																									
8																									

Sampler:		Shipment Method: TAL Pickup		Required TAT: 24-h 48-h 72-h 5 Days 10 Days Other:	
1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:
Joy Snodgrass	6/25/09	Neil Rodriguez	6/25/09	Joy Snodgrass	6/25/09
Company:	Time:	Company:	Time:	Company:	Time:
Noltex	10:00	Noltex	10:00	Noltex	12:34
5. Relinquished by:	Date:	6. Received by:	Date:	7. Relinquished by:	Date:
Company:	Time:	Company:	Time:	Company:	Time:

Comments/Notes:

TestAmerica Laboratories

6310 Rothway Drive, Suite 130

Houston, TX 77040

Phone: 713.690.4444

Fax: 713.690.5646

TAL Project Manager:

Neil Rodriguez 713-358-2006

EPAHQ1090000334

Login Sample Receipt Check List

Client: Noltex LLC

Job Number: 600-12026-1

Login Number: 12026

List Source: TestAmerica Houston

Creator: Claunch, Todd F

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	

ANALYTICAL REPORT

Job Number: 600-12080-1

Job Description: East Filter Press TCLP, RCI, BTU 6/26/09

For:

Noltex LLC

12220 Strang Road

La Porte, TX 77571-9740

Attention: Ms. Joy Snodgrass

Neil A. Rodriguez

Approved for release.
Neil A Rodriguez
Project Manager II
7/10/2009 2:26 PM

Neil A Rodriguez
Project Manager II
neil.rodrique@testamericainc.com
07/10/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-06-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

TestAmerica Laboratories, Inc.

TestAmerica Houston 6310 Rothway Street, Houston, TX 77040

Tel (713) 690-4444 Fax (713) 690-5646 www.testamericainc.com



SAMPLE SUMMARY

Client: Noltex LLC

Job Number: 600-12080-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
600-12080-1	#325 East Filter Press	Solid	06/26/2009 1030	06/26/2009 1248

Analytical Data

Client: Noltex LLC

Job Number: 600-12080-1

Client Sample ID: #325 East Filter Press

Lab Sample ID: 600-12080-1

Date Sampled: 06/26/2009 1030

Client Matrix: Solid

Date Received: 06/26/2009 1248

8260B Volatile Organic Compounds (GC/MS)-TCLP

Method:	8260B	Analysis Batch:	600-17596	Instrument ID:	VOAMS05
Preparation:	5030B			Lab File ID:	H19008.D
Dilution:	20	Leachate Batch:	600-17517	Initial Weight/Volume:	5 mL
Date Analyzed:	07/09/2009 1504			Final Weight/Volume:	5 mL
Date Prepared:	07/09/2009 1504				
Date Leached:	07/08/2009 0800				

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
Benzene		22	U	22	100
Carbon tetrachloride		22	U	22	100
Chlorobenzene		18	U	18	100
Chloroform		18	U	18	100
1,2-Dichloroethane		22	U	22	100
1,1-Dichloroethene		23	U	23	100
2-Butanone (MEK)		32	U	32	200
Tetrachloroethene		46	U	46	100
Trichloroethene		26	U	26	100
Vinyl chloride		32	U	32	100
1,4-Dichlorobenzene		22	U	22	100

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	87		70 - 130
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	90		70 - 130

Analytical Data

Client: Noltex LLC

Job Number: 600-12080-1

Client Sample ID: #325 East Filter Press

Lab Sample ID: 600-12080-1

Date Sampled: 06/26/2009 1030

Client Matrix: Solid

Date Received: 06/26/2009 1248

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)-TCLP

Method:	8270C	Analysis Batch: 600-17546	Instrument ID:	SVMS05
Preparation:	3510C	Prep Batch: 600-17412	Lab File ID:	Z0708921.D
Dilution:	1.0	Leachate Batch: 600-17301	Initial Weight/Volume:	995 mL
Date Analyzed:	07/08/2009 2145		Final Weight/Volume:	1.00 mL
Date Prepared:	07/07/2009 1416		Injection Volume:	1.0 uL
Date Leached:	07/02/2009 1500			

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene		1.3	U	1.3	10
2,4-Dinitrotoluene		0.95	U	0.95	10
2,4,5-Trichlorophenol		1.3	U	1.3	10
2,4,6-Trichlorophenol		0.92	U	0.92	10
2-Methylphenol		1.0	U	1.0	10
3 & 4 Methylphenol		1.9	U	1.9	20
Hexachlorobenzene		0.90	U	0.90	10
Hexachlorobutadiene		1.1	U	1.1	10
Hexachloroethane		1.2	U	1.2	10
Nitrobenzene		1.2	U	1.2	10
Pentachlorophenol		0.89	U	0.89	50
Pyridine		1.0	U *	1.0	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Phenol-d6	51		10 - 94
Nitrobenzene-d5	92		35 - 114
2-Fluorophenol	66		21 - 100
2-Fluorobiphenyl	91		43 - 116
2,4,6-Tribromophenol	109		10 - 123
Terphenyl-d14	105		33 - 141

Analytical Data

Client: Noltex LLC

Job Number: 600-12080-1

Client Sample ID: #325 East Filter Press

Lab Sample ID: 600-12080-1

Date Sampled: 06/26/2009 1030

Client Matrix: Solid

Date Received: 06/26/2009 1248

6010B Metals (ICP)-TCLP

Method:	6010B	Analysis Batch:	600-17523	Instrument ID:	TJA1
Preparation:	3010A	Prep Batch:	600-17467	Lab File ID:	T070909
Dilution:	1.0	Leachate Batch:	600-17301	Initial Weight/Volume:	50 mL
Date Analyzed:	07/09/2009 0932			Final Weight/Volume:	50 mL
Date Prepared:	07/08/2009 0948				
Date Leached:	07/02/2009 1500				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Lead		0.0029	U	0.0029	0.010
Chromium		0.0070	J	0.0016	0.010
Cadmium		0.00073	U	0.00073	0.0050
Barium		0.080	B	0.0016	0.020
Arsenic		0.011	B	0.0033	0.010
Silver		0.0012	U	0.0012	0.010
Selenium		0.012	J B	0.0042	0.040

7470A Mercury (CVAA)-TCLP

Method:	7470A	Analysis Batch:	600-17415	Instrument ID:	FIMS01
Preparation:	7470A	Prep Batch:	600-17381	Lab File ID:	N/A
Dilution:	1.0	Leachate Batch:	600-17301	Initial Weight/Volume:	40 mL
Date Analyzed:	07/07/2009 1408			Final Weight/Volume:	40 mL
Date Prepared:	07/07/2009 1000				
Date Leached:	07/02/2009 1500				

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
Mercury		0.021	U	0.021	0.20

Analytical Data

Client: Noltex LLC

Job Number: 600-12080-1

General Chemistry**Client Sample ID: #325 East Filter Press**

Lab Sample ID: 600-12080-1

Date Sampled: 06/26/2009 1030

Client Matrix: Solid

Date Received: 06/26/2009 1248

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Reactive	18	U	ug/Kg	18	250	1.0	9012
	Analysis Batch: 600-17274	Date Analyzed: 07/02/2009 1348					DryWt Corrected: N
	Prep Batch: 600-17173	Date Prepared: 07/01/2009 1150					
Sulfide, Reactive	30	J	mg/Kg	14	50	1.0	7.4.4
	Analysis Batch: 600-17273	Date Analyzed: 07/02/2009 1230					DryWt Corrected: N
	Prep Batch: 600-17173	Date Prepared: 07/01/2009 1150					
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Flashpoint	>212		Degrees F	1.0	1.0	1.0	D92
	Analysis Batch: 600-17227	Date Analyzed: 07/01/2009 1300					DryWt Corrected: N
pH	6.08	HF	SU	0.0100	0.0100	1.0	9045C
	Analysis Batch: 600-17024	Date Analyzed: 06/29/2009 0830					DryWt Corrected: N
BTU	15000		BTU/lb	500	500	1.0	D240-87
	Analysis Batch: 600-17482	Date Analyzed: 07/07/2009 1645					DryWt Corrected: N

METHOD SUMMARY

Client: Noltex LLC

Job Number: 600-12080-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL HOU	SW846 8260B	
TCLP Extraction	TAL HOU		SW846 1311
Purge and Trap	TAL HOU		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL HOU	SW846 8270C	
TCLP Extraction	TAL HOU		SW846 1311
Liquid-Liquid Extraction (Separatory Funnel)	TAL HOU		SW846 3510C
Metals (ICP)	TAL HOU	SW846 6010B	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Total Metals	TAL HOU		SW846 3010A
Mercury (CVAA)	TAL HOU	SW846 7470A	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Mercury	TAL HOU		SW846 7470A
Reactive Sulfide	TAL HOU	EPA 7.4.4	
Sulfide, Reactive	TAL HOU		SW846 7.3.4
Cyanide, Reactive	TAL HOU	SW846 9012	
Cyanide, Reactive	TAL HOU		SW846 7.3.3
Corrosivity	TAL HOU	SW846 9045C	
Heat of Combustion	TAL HOU	ASTM D240-87	
Flashpoint	TAL HOU	ASTM D92	

Lab References:

TAL HOU = TestAmerica Houston

Method References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Noltex LLC

Job Number: 600-12080-1

Method	Analyst	Analyst ID
SW846 8260B	Liu, Zaifang	ZFL
SW846 8270C	Sundquist, Trevor W	TWS
SW846 6010B	Patel, Silen R	SRP
SW846 7470A	Lige, Derrick C	DCL
EPA 7.4.4	Walker, Gerald (Gerry) C	GCW
SW846 9012	Walker, Gerald (Gerry) C	GCW
SW846 9045C	Puranik, Surendra U	SUP
ASTM D240-87	Puranik, Surendra U	SUP
ASTM D92	Puranik, Surendra U	SUP

QUALITY CONTROL RESULTS

Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

TCLP SPLPE Leachate Blank - Batch: 600-17596

Method: 8260B
Preparation: 5030B
TCLP

Lab Sample ID: LB 600-17517/1-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 07/09/2009 1319
Date Prepared: 07/09/2009 1319
Date Leached: 07/08/2009 0800

Analysis Batch: 600-17596
Prep Batch: N/A
Units: ug/L

Instrument ID: VOA-V
Lab File ID: H19004.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Leachate Batch: 600-17517

Analyte	Result	Qual	MDL	RL
Benzene	22	U	22	100
Carbon tetrachloride	22	U	22	100
Chlorobenzene	18	U	18	100
Chloroform	18	U	18	100
1,2-Dichloroethane	22	U	22	100
1,1-Dichloroethene	23	U	23	100
2-Butanone (MEK)	32	U	32	200
Tetrachloroethene	46	U	46	100
Trichloroethene	26	U	26	100
Vinyl chloride	32	U	32	100
1,4-Dichlorobenzene	22	U	22	100
Surrogate	% Rec	Acceptance Limits		
4-Bromofluorobenzene	103	70 - 130		
Dibromofluoromethane	90	70 - 130		
Toluene-d8 (Surr)	103	70 - 130		
1,2-Dichloroethane-d4 (Surr)	90	70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

Method Blank - Batch: 600-17596

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 600-17596/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/09/2009 1345
Date Prepared: 07/09/2009 1345

Analysis Batch: 600-17596
Prep Batch: N/A
Units: ug/L

Instrument ID: VOA-V
Lab File ID: H19005.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.1	U	1.1	5.0
Carbon tetrachloride	1.1	U	1.1	5.0
Chlorobenzene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	U	1.2	5.0
2-Butanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Vinyl chloride	1.6	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0
Surrogate	% Rec	Acceptance Limits		
4-Bromofluorobenzene	103	70 - 130		
Dibromofluoromethane	88	70 - 130		
Toluene-d8 (Surr)	99	70 - 130		
1,2-Dichloroethane-d4 (Surr)	88	70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

Lab Control Sample - Batch: 600-17596

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 600-17596/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/09/2009 1211
Date Prepared: 07/09/2009 1211

Analysis Batch: 600-17596
Prep Batch: N/A
Units: ug/L

Instrument ID: VOA-V
Lab File ID: H19003.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	49.3	99	69 - 124	
Carbon tetrachloride	50.0	44.4	89	57 - 134	
Chlorobenzene	50.0	46.4	93	70 - 129	
Chloroform	50.0	45.0	90	69 - 128	
1,2-Dichloroethane	50.0	43.9	88	65 - 134	
1,1-Dichloroethene	50.0	41.1	82	45 - 136	
2-Butanone (MEK)	100	123	123	53 - 140	
Tetrachloroethene	50.0	46.3	93	59 - 134	
Trichloroethene	50.0	46.7	93	68 - 130	
Vinyl chloride	50.0	43.6	87	38 - 153	
1,4-Dichlorobenzene	50.0	45.0	90	72 - 131	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	102	70 - 130
Dibromofluoromethane	100	70 - 130
Toluene-d8 (Surr)	96	70 - 130
1,2-Dichloroethane-d4 (Surr)	97	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 600-17596

Method: 8260B
Preparation: 5030B
TCLP

MS Lab Sample ID: 600-12080-1
Client Matrix: Solid
Dilution: 20
Date Analyzed: 07/09/2009 1411
Date Prepared: 07/09/2009 1411
Date Leached: 07/08/2009 0800

Analysis Batch: 600-17596
Prep Batch: N/A

Instrument ID: VOA-V
Lab File ID: H19006.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Leachate Batch: 600-17517

MSD Lab Sample ID: 600-12080-1
Client Matrix: Solid
Dilution: 20
Date Analyzed: 07/09/2009 1437
Date Prepared: 07/09/2009 1437
Date Leached: 07/08/2009 0800

Analysis Batch: 600-17596
Prep Batch: N/A

Instrument ID: VOA-V
Lab File ID: H19007.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Leachate Batch: 600-17517

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	101	102	65 - 125	2	21		
Carbon tetrachloride	93	93	60 - 140	0	25		
Chlorobenzene	94	92	74 - 122	3	21		
Chloroform	91	90	60 - 140	1	25		
1,2-Dichloroethane	95	96	60 - 140	1	25		
1,1-Dichloroethene	95	87	22 - 123	9	22		
2-Butanone (MEK)	119	115	60 - 140	3	25		
Tetrachloroethene	91	90	60 - 140	2	25		
Trichloroethene	98	97	56 - 118	1	24		
Vinyl chloride	80	78	60 - 140	3	25		
1,4-Dichlorobenzene	98	93	60 - 140	5	25		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
4-Bromofluorobenzene	115		112	70 - 130			
Dibromofluoromethane	102		100	70 - 130			
Toluene-d8 (Surr)	106		104	70 - 130			
1,2-Dichloroethane-d4 (Surr)	96		93	70 - 130			

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

Method Blank - Batch: 600-17412

Method: 8270C

Preparation: 3510C

Lab Sample ID: MB 600-17412/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/08/2009 1353
Date Prepared: 07/07/2009 1416

Analysis Batch: 600-17546
Prep Batch: 600-17412
Units: ug/L

Instrument ID: MSD2348
Lab File ID: Z0708907.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.00 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
1,4-Dichlorobenzene	1.3	U	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,5-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2-Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachloroethane	1.2	U	1.2	10
Nitrobenzene	1.2	U	1.2	10
Pentachlorophenol	0.89	U	0.89	50
Pyridine	1.0	U	1.0	10
Surrogate	% Rec	Acceptance Limits		
Phenol-d6	35	10 - 94		
Nitrobenzene-d5	76	35 - 114		
2-Fluorophenol	47	21 - 100		
2-Fluorobiphenyl	71	43 - 116		
2,4,6-Tribromophenol	85	10 - 123		
Terphenyl-d14	91	33 - 141		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

TCLP SPLPE Leachate Blank - Batch: 600-17412

Method: 8270C
Preparation: 3510C
TCLP

Lab Sample ID: LB 600-17301/1-C
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/08/2009 1642
Date Prepared: 07/07/2009 1416
Date Leached: 07/02/2009 1500

Analysis Batch: 600-17546
Prep Batch: 600-17412
Units: ug/L

Leachate Batch: 600-17301

Instrument ID: MSD2348
Lab File ID: Z0708912.D
Initial Weight/Volume: 1005 mL
Final Weight/Volume: 1.00 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
1,4-Dichlorobenzene	1.3	U	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,5-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2-Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachloroethane	1.2	U	1.2	10
Nitrobenzene	1.2	U	1.2	10
Pentachlorophenol	0.89	U	0.89	50
Pyridine	1.0	U	1.0	10

Surrogate	% Rec	Acceptance Limits
Phenol-d6	49	10 - 94
Nitrobenzene-d5	91	35 - 114
2-Fluorophenol	63	21 - 100
2-Fluorobiphenyl	87	43 - 116
2,4,6-Tribromophenol	111	10 - 123
Terphenyl-d14	112	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 600-17412**

**Method: 8270C
Preparation: 3510C**

LCS Lab Sample ID: LCS 600-17412/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/08/2009 1427
Date Prepared: 07/07/2009 1416

Analysis Batch: 600-17546
Prep Batch: 600-17412
Units: ug/L

Instrument ID: MSD2348
Lab File ID: Z0708908.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.00 mL
Injection Volume: 1.0 uL

LCSD Lab Sample ID: LCSD 600-17412/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/08/2009 1501
Date Prepared: 07/07/2009 1416

Analysis Batch: 600-17546
Prep Batch: 600-17412
Units: ug/L

Instrument ID: MSD2348
Lab File ID: Z0708909.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.00 mL
Injection Volume: 1.0 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,4-Dichlorobenzene	85	87	45 - 105	2	20		
2,4-Dinitrotoluene	110	110	61 - 162	0	20		
2,4,5-Trichlorophenol	95	97	59 - 123	2	20		
2,4,6-Trichlorophenol	96	94	30 - 143	2	20		
2-Methylphenol	79	82	34 - 109	4	20		
3 & 4 Methylphenol	92	93	27 - 113	2	20		
Hexachlorobenzene	104	103	62 - 121	2	20		
Hexachlorobutadiene	91	91	32 - 143	1	20		
Hexachloroethane	85	86	42 - 110	1	20		
Nitrobenzene	94	93	55 - 115	1	20		
Pentachlorophenol	94	89	44 - 142	5	20	J	J
Pyridine	58	33	10 - 109	54	40		*

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Phenol-d6	49	50	10 - 94
Nitrobenzene-d5	99	96	35 - 114
2-Fluorophenol	64	64	21 - 100
2-Fluorobiphenyl	93	93	43 - 116
2,4,6-Tribromophenol	117	112	10 - 123
Terphenyl-d14	106	103	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

Method Blank - Batch: 600-17467

Method: 6010B

Preparation: 3010A

Lab Sample ID: MB 600-17467/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/09/2009 0830
Date Prepared: 07/08/2009 0922

Analysis Batch: 600-17523
Prep Batch: 600-17467
Units: mg/L

Instrument ID: TJA ICP 61E
Lab File ID: T070909
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Lead	0.0029	U	0.0029	0.010
Chromium	0.0016	U	0.0016	0.010
Cadmium	0.00073	U	0.00073	0.0050
Barium	0.0016	U	0.0016	0.020
Arsenic	0.0033	U	0.0033	0.010
Silver	0.0012	U	0.0012	0.010
Selenium	0.0042	U	0.0042	0.040

TCLP SPLPE Leachate Blank - Batch: 600-17467

Method: 6010B

Preparation: 3010A

TCLP

Lab Sample ID: LB 600-17379/3-D
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/09/2009 0856
Date Prepared: 07/08/2009 0922
Date Leached: 07/06/2009 1440

Analysis Batch: 600-17523
Prep Batch: 600-17467
Units: mg/L

Instrument ID: TJA ICP 61E
Lab File ID: T070909
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Leachate Batch: 600-17379

Analyte	Result	Qual	MDL	RL
Lead	0.0029	U	0.0029	0.010
Chromium	0.0016	U	0.0016	0.010
Cadmium	0.00073	U	0.00073	0.0050
Barium	0.021	U	0.0016	0.020
Arsenic	0.0078	J	0.0033	0.010
Silver	0.0012	U	0.0012	0.010
Selenium	0.011	J	0.0042	0.040

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

TCLP SPLPE Leachate Blank - Batch: 600-17467

Method: 6010B

Preparation: 3010A

TCLP

Lab Sample ID: LB 600-17301/1-F
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/09/2009 0925
Date Prepared: 07/08/2009 0924
Date Leached: 07/02/2009 1500

Analysis Batch: 600-17523
Prep Batch: 600-17467
Units: mg/L

Leachate Batch: 600-17301

Instrument ID: TJA ICP 61E
Lab File ID: T070909
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Lead	0.0029	U	0.0029	0.010
Chromium	0.0016	U	0.0016	0.010
Cadmium	0.00073	U	0.00073	0.0050
Barium	0.071		0.0016	0.020
Arsenic	0.0093	J	0.0033	0.010
Silver	0.0012	U	0.0012	0.010
Selenium	0.0098	J	0.0042	0.040

Lab Control Sample - Batch: 600-17467

Method: 6010B

Preparation: 3010A

Lab Sample ID: LCS 600-17467/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/09/2009 0834
Date Prepared: 07/08/2009 0922

Analysis Batch: 600-17523
Prep Batch: 600-17467
Units: mg/L

Instrument ID: TJA ICP 61E
Lab File ID: T070909
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	1.00	1.02	102	80 - 120	
Chromium	1.00	0.998	100	80 - 120	
Cadmium	0.500	0.502	100	80 - 120	
Barium	1.00	1.02	102	80 - 120	
Arsenic	1.00	1.01	101	80 - 120	
Silver	0.500	0.496	99	80 - 120	
Selenium	1.00	1.01	101	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

Method Blank - Batch: 600-17381

Lab Sample ID: MB 600-17381/7-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/07/2009 1332
Date Prepared: 07/07/2009 1000

Analysis Batch: 600-17415
Prep Batch: 600-17381
Units: ug/L

Method: 7470A Preparation: 7470A

Instrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.021	U	0.021	0.20

TCLP SPLPE Leachate Blank - Batch: 600-17381

Lab Sample ID: LB 600-17301/1-B
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/07/2009 1356
Date Prepared: 07/07/2009 1000
Date Leached: 07/02/2009 1500

Analysis Batch: 600-17415
Prep Batch: 600-17381
Units: ug/L

Leachate Batch: 600-17301

Method: 7470A Preparation: 7470A TCLP

Instrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.18	J	0.021	0.20

Lab Control Sample - Batch: 600-17381

Lab Sample ID: LCS 600-17381/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/07/2009 1334
Date Prepared: 07/07/2009 1000

Analysis Batch: 600-17415
Prep Batch: 600-17381
Units: ug/L

Method: 7470A Preparation: 7470A

Instrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	3.00	3.01	100	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

Method Blank - Batch: 600-17173

Method: 7.4.4

Preparation: 7.3.4

Lab Sample ID: MB 600-17173/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2009 1230
Date Prepared: 07/01/2009 1150

Analysis Batch: 600-17273
Prep Batch: 600-17173
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Sulfide, Reactive	14	U	14	50

Lab Control Sample - Batch: 600-17173

Method: 7.4.4

Preparation: 7.3.4

Lab Sample ID: LCS 600-17173/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2009 1230
Date Prepared: 07/01/2009 1150

Analysis Batch: 600-17273
Prep Batch: 600-17173
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfide, Reactive	1760	1090	62	0 - 100	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

Method Blank - Batch: 600-17173

Method: 9012
Preparation: 7.3.3

Lab Sample ID: MB 600-17173/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2009 1348
Date Prepared: 07/01/2009 1150

Analysis Batch: 600-17274
Prep Batch: 600-17173
Units: ug/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Reactive	18	U	18	250

Lab Control Sample - Batch: 600-17173

Method: 9012
Preparation: 7.3.3

Lab Sample ID: LCS 600-17173/2-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 07/02/2009 1348
Date Prepared: 07/01/2009 1150

Analysis Batch: 600-17274
Prep Batch: 600-17173
Units: ug/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Reactive	1000000	48100	5	0 - 100	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

Lab Control Sample - Batch: 600-17024

Method: 9045C
Preparation: N/A

Lab Sample ID: LCS 600-17024/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/29/2009 0830
Date Prepared: N/A

Analysis Batch: 600-17024
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.00	7.010	100	99 - 101	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

Method Blank - Batch: 600-17482

Method: D240-87

Preparation: N/A

Lab Sample ID: MB 600-17482/10
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/07/2009 1645
Date Prepared: N/A

Analysis Batch: 600-17482
Prep Batch: N/A
Units: BTU/lb

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0263 g
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
BTU	500	U	500	500

Lab Control Sample - Batch: 600-17482

Method: D240-87

Preparation: N/A

Lab Sample ID: LCS 600-17482/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/07/2009 1645
Date Prepared: N/A

Analysis Batch: 600-17482
Prep Batch: N/A
Units: BTU/lb

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 0.9875 g
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
BTU	11400	11200	98	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

Method Blank - Batch: 600-17227

Method: D92
Preparation: N/A

Lab Sample ID: MB 600-17227/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/01/2009 1300
Date Prepared: N/A

Analysis Batch: 600-17227
Prep Batch: N/A
Units: Degrees F

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Flashpoint	>186		1.0	1.0

Lab Control Sample - Batch: 600-17227

Method: D92
Preparation: N/A

Lab Sample ID: LCS 600-17227/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/01/2009 1300
Date Prepared: N/A

Analysis Batch: 600-17227
Prep Batch: N/A
Units: Degrees F

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 60 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Flashpoint	81.0	82.0	101	96.91 - 103.09	

Calculations are performed before rounding to avoid round-off errors in calculated results.

DATA REPORTING QUALIFIERS

Client: Noltex LLC

Job Number: 600-12080-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	RPD of the LCS and LCSD exceeds the control limits
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Job Narrative
600-J12080-1

GC/MS Semi VOA

Method 8270C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 17412 exceeded control limits for the following analytes: Pyridine.

No other analytical or quality issues were noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

Loc: 600

12080

#1

600-12080-A-1

e: 1 of 1

TestAmerica Laboratories, Inc.

Customer Information			Project Information			Analysis/Methods																	
PO:			Project Name:	Waste Disposal		A	TCLP-Volatiles (8260)											K					
WO:			TAL Project No:	60000463		B	TCLP-Semivolatiles (8270)											L					
Company:	Noltex, LLC		Bill To:	Noltex, LLC		C	TLCP-Metals (6010/7470)											M					
Report to:	Joy Snodgrass		Invoice ATTN:	Joy Snodgrass		D	RCI											N					
Address:	12220 Strang Road		Address:	12220 Strang Road		E	BTUs											O					
	La Porte, TX 77571-9740			La Porte, TX 77571-9740		F												P					
						G												Q					
E-mail:	Joy_Snodgrass@noltex.com			Joy_Snodgrass@noltex.com		H												R					
Phone:	281-842-5039		Phone:	281-842-5039		I												Other:					
Fax:	281-842-5097		Fax:	281-842-5097		J																	

No.	Sample Description	Preservation	Date	Time	Matrix	# Cont.	Comments	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	#325 Fast Filter Dress	NONE	6/26/09	10:30	Waste	3		X	X	X	X	X													
2																									
3																									
4																									
5																									
6																									
7																									
8																									

Sampler:		Shipment Method: TAL Pickup		Required TAT: 24-h 48-h 72-h 5 Days 10 Days Other: _____	
----------	--	-----------------------------	--	--	--

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
Joy Snodgrass	6/26/09	Neil Rodrigue	6/26/09	Joy Snodgrass	6/26/09	Neil Rodrigue	6/26/09
Company:	Time:	Company:	Time:	Company:	Time:	Company:	Time:
Noltex	10:39	Noltex	10:39	Noltex	12:48	Noltex	12:48
5. Relinquished by:	Date:	6. Received by:	Date:	7. Relinquished by:	Date:	8. Received by:	Date:
Company:	Time:	Company:	Time:	Company:	Time:	Company:	Time:

Comments/Notes:
07/1

TestAmerica Laboratories

6310 Rothway Drive, Suite 130

Houston, TX 77040

Phone: 713.690.4444

Fax: 713.690.5646

TAL Project Manager:

Neil Rodrigue 713-358-2006

EPAHQ109000362

2009

Login Sample Receipt Check List

Client: Noltex LLC

Job Number: 600-12080-1

Login Number: 12080

List Source: TestAmerica Houston

Creator: Trenery, Michael J

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	

ANALYTICAL REPORT

Job Number: 600-11197-1

Job Description: MeOH Feed Filter 6/1/09

For:

Noltex LLC

12220 Strang Road

La Porte, TX 77571-9740

Attention: Ms. Joy Snodgrass

Neil A. Rodrigue

Approved for release.
Neil A Rodrigue
Project Manager II
6/11/2009 3:55 PM

Neil A Rodrigue
Project Manager II
neil.rodrigue@testamericainc.com
06/11/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-06-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

TestAmerica Laboratories, Inc.

TestAmerica Houston 6310 Rothway Street, Houston, TX 77040

Tel (713) 690-4444 Fax (713) 690-5646 www.testamericainc.com



SAMPLE SUMMARY

Client: Noltex LLC

Job Number: 600-11197-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
600-11197-4	MeOH Feed Filter COMPOSITE	Solid	06/01/2009 0240	06/02/2009 1300

Analytical Data

Client: Noltex LLC

Job Number: 600-11197-1

Client Sample ID: MeOH Feed Filter COMPOSITE

Lab Sample ID: 600-11197-4

Date Sampled: 06/01/2009 0240

Client Matrix: Solid

Date Received: 06/02/2009 1300

8260B Volatile Organic Compounds (GC/MS)-TCLP

Method:	8260B	Analysis Batch:	600-16207	Instrument ID:	VOA-V
Preparation:	5030B			Lab File ID:	H16019.D
Dilution:	20	Leachate Batch:	600-16132	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2009 1938			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2009 1938				
Date Leached:	06/08/2009 1630				

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
Benzene		22	U	22	100
Carbon tetrachloride		22	U	22	100
Chlorobenzene		18	U	18	100
Chloroform		18	U	18	100
1,2-Dichloroethane		22	U	22	100
1,1-Dichloroethene		23	U	23	100
2-Butanone (MEK)		32	U	32	200
Tetrachloroethene		46	U	46	100
Trichloroethene		26	U	26	100
Vinyl chloride		32	U	32	100
1,4-Dichlorobenzene		22	U	22	100

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	112	70 - 130
Dibromofluoromethane	116	70 - 130
Toluene-d8 (Surr)	124	70 - 130
1,2-Dichloroethane-d4 (Surr)	95	70 - 130

Analytical Data

Client: Noltex LLC

Job Number: 600-11197-1

Client Sample ID: MeOH Feed Filter COMPOSITE

Lab Sample ID: 600-11197-4

Date Sampled: 06/01/2009 0240

Client Matrix: Solid

Date Received: 06/02/2009 1300

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)-TCLP

Method:	8270C	Analysis Batch:	600-16299	Instrument ID:	MSD2348
Preparation:	3510C	Prep Batch:	600-16169	Lab File ID:	Z0610913.D
Dilution:	1.0	Leachate Batch:	600-16122	Initial Weight/Volume:	1000 mL
Date Analyzed:	06/10/2009 1915			Final Weight/Volume:	1.00 mL
Date Prepared:	06/09/2009 1512			Injection Volume:	1.0 uL
Date Leached:	06/08/2009 1630				

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene		1.3	U	1.3	10
2,4-Dinitrotoluene		0.95	U	0.95	10
2,4,5-Trichlorophenol		1.3	U	1.3	10
2,4,6-Trichlorophenol		0.92	U	0.92	10
2-Methylphenol		1.0	U	1.0	10
3 & 4 Methylphenol		1.9	U	1.9	20
Hexachlorobenzene		0.90	U	0.90	10
Hexachlorobutadiene		1.1	U	1.1	10
Hexachloroethane		1.2	U	1.2	10
Nitrobenzene		1.2	U	1.2	10
Pentachlorophenol		0.89	U	0.89	50
Pyridine		1.0	U	1.0	10

Surrogate	%Rec	Acceptance Limits
Phenol-d6	31	10 - 94
Nitrobenzene-d5	87	35 - 114
2-Fluorophenol	47	21 - 100
2-Fluorobiphenyl	91	43 - 116
2,4,6-Tribromophenol	97	10 - 123
Terphenyl-d14	73	33 - 141

Analytical Data

Client: Noltex LLC

Job Number: 600-11197-1

Client Sample ID: MeOH Feed Filter COMPOSITELab Sample ID: 600-11197-4
Client Matrix: SolidDate Sampled: 06/01/2009 0240
Date Received: 06/02/2009 1300**6010B Metals (ICP)-TCLP**

Method:	6010B	Analysis Batch:	600-16296	Instrument ID:	TJA ICP 61E
Preparation:	3010A	Prep Batch:	600-16250	Lab File ID:	J061109
Dilution:	1.0	Leachate Batch:	600-16122	Initial Weight/Volume:	50 mL
Date Analyzed:	06/11/2009 1101			Final Weight/Volume:	50 mL
Date Prepared:	06/10/2009 1555				
Date Leached:	06/08/2009 1630				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Pb		0.0029	U	0.0029	0.010
Cr		0.0016	U	0.0016	0.010
Cd		0.00073	U	0.00073	0.0050
Ba		0.016	JB	0.0016	0.020
As		0.0099	JB	0.0033	0.010
Ag		0.0012	U	0.0012	0.010
Se		0.0042	U	0.0042	0.040

7470A Mercury (CVAA)-TCLP

Method:	7470A	Analysis Batch:	600-16247	Instrument ID:	Perkin Elmer
Preparation:	7470A	Prep Batch:	600-16195	Lab File ID:	N/A
Dilution:	1.0	Leachate Batch:	600-16122	Initial Weight/Volume:	40 mL
Date Analyzed:	06/10/2009 1506			Final Weight/Volume:	40 mL
Date Prepared:	06/10/2009 0900				
Date Leached:	06/08/2009 1630				

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
Mercury		0.021	U	0.021	0.20

Analytical Data

Client: Noltex LLC

Job Number: 600-11197-1

General Chemistry**Client Sample ID: MeOH Feed Filter COMPOSITE**

Lab Sample ID: 600-11197-4

Date Sampled: 06/01/2009 0240

Client Matrix: Solid

Date Received: 06/02/2009 1300

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Reactive	18	U	ug/Kg	18	250	1.0	9012
	Any Batch: 600-16157	Date Analyzed	06/09/2009	1301			DryWt Corrected: N
	Prep Batch: 600-16066	Date Prepared:	06/08/2009	1220			
Sulfide, Reactive	40	J	mg/Kg	14	50	1.0	7.4.4
	Any Batch: 600-16165	Date Analyzed	06/09/2009	1223			DryWt Corrected: N
	Prep Batch: 600-16066	Date Prepared:	06/08/2009	1220			
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH	7.39	HF	SU	0.0100	0.0100	1.0	9045C
	Any Batch: 600-16015	Date Analyzed	06/05/2009	1020			DryWt Corrected: N
BTU	2100		BTU/lb	500	500	1.0	D240-87
	Any Batch: 600-16133	Date Analyzed	06/08/2009	1630			DryWt Corrected: N
Flashpoint	>212		Degrees F	1.0	1.0	1.0	D92
	Any Batch: 600-16176	Date Analyzed	06/09/2009	1530			DryWt Corrected: N

METHOD SUMMARY

Client: Noltex LLC

Job Number: 600-11197-1

Description		Lab Location	Method	Preparation Method
Matrix	Solid			
Volatile Organic Compounds (GC/MS)		TAL HOU	SW846 8260B	
	TCLP Extraction	TAL HOU		SW846 1311
	Purge and Trap	TAL HOU		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)		TAL HOU	SW846 8270C	
	TCLP Extraction	TAL HOU		SW846 1311
	Liquid-Liquid Extraction (Separatory Funnel)	TAL HOU		SW846 3510C
Metals (ICP)		TAL HOU	SW846 6010B	
	TCLP Extraction	TAL HOU		SW846 1311
	Preparation, Total Metals	TAL HOU		SW846 3010A
Mercury (CVAA)		TAL HOU	SW846 7470A	
	TCLP Extraction	TAL HOU		SW846 1311
	Preparation, Mercury	TAL HOU		SW846 7470A
Reactive Sulfide		TAL HOU	EPA 7.4.4	
	Sulfide, Reactive	TAL HOU		SW846 7.3.4
Cyanide, Reactive		TAL HOU	SW846 9012	
	Cyanide, Reactive	TAL HOU		SW846 7.3.3
Corrosivity		TAL HOU	SW846 9045C	
Heat of Combustion		TAL HOU	ASTM D240-87	
Flashpoint		TAL HOU	ASTM D92	

Lab References:

TAL HOU = TestAmerica Houston

Method References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Noltex LLC

Job Number: 600-11197-1

Method	Analyst	Analyst ID
SW846 8260B	Vela, Kenneth L	KLV
SW846 8270C	Dang, Tram T	TTD
SW846 6010B	Patel, Silen R	SRP
SW846 7470A	Lige, Derrick C	DCL
EPA 7.4.4	Walker, Gerald (Gerry) C	GCW
SW846 9012	Walker, Gerald (Gerry) C	GCW
SW846 9045C	Gregory, Sharita N	SNG
ASTM D240-87	Puranik, Surendra U	SUP
ASTM D92	Puranik, Surendra U	SUP

QUALITY CONTROL RESULTS

Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

TCLP SPLPE Leachate Blank - Batch: 600-16207

Method: 8260B

Preparation: 5030B

TCLP

Lab Sample ID: LB 600-16132/1-A

Analysis Batch: 600-16207

Instrument ID: VOA-V

Client Matrix: Solid

Prep Batch: N/A

Lab File ID: H16005.D

Dilution: 20

Units: ug/L

Initial Weight/Volume: 5 mL

Date Analyzed: 06/09/2009 1343

Final Weight/Volume: 5 mL

Date Prepared: 06/09/2009 1343

Date Leached: 06/08/2009 1630

Leachate Batch: 600-16132

Analyte	Result	Qual	MDL	RL
Benzene	22	U	22	100
Carbon tetrachloride	22	U	22	100
Chlorobenzene	18	U	18	100
Chloroform	18	U	18	100
1,2-Dichloroethane	22	U	22	100
1,1-Dichloroethene	23	U	23	100
2-Butanone (MEK)	32	U	32	200
Tetrachloroethene	46	U	46	100
Trichloroethene	26	U	26	100
Vinyl chloride	32	U	32	100
1,4-Dichlorobenzene	22	U	22	100

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	116	70 - 130
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	129	70 - 130
1,2-Dichloroethane-d4 (Surr)	93	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

Method Blank - Batch: 600-16207

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 600-16207/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2009 1434
Date Prepared: 06/09/2009 1434

Analysis Batch: 600-16207
Prep Batch: N/A
Units: ug/L

Instrument ID: VOA-V
Lab File ID: H16007.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.1	U	1.1	5.0
Carbon tetrachloride	1.1	U	1.1	5.0
Chlorobenzene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	U	1.2	5.0
2-Butanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Vinyl chloride	1.6	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0
Surrogate	% Rec	Acceptance Limits		
4-Bromofluorobenzene	118	70 - 130		
Dibromofluoromethane	108	70 - 130		
Toluene-d8 (Surr)	126	70 - 130		
1,2-Dichloroethane-d4 (Surr)	92	70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

Lab Control Sample - Batch: 600-16207

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 600-16207/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/09/2009 1227
Date Prepared: 06/09/2009 1227

Analysis Batch: 600-16207
Prep Batch: N/A
Units: ug/L

Instrument ID: VOA-V
Lab File ID: H16002.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	51.7	103	69 - 124	
Carbon tetrachloride	50.0	45.1	90	57 - 134	
Chlorobenzene	50.0	56.4	113	70 - 129	
Chloroform	50.0	49.8	100	69 - 128	
1,2-Dichloroethane	50.0	43.7	87	65 - 134	
1,1-Dichloroethene	50.0	49.0	98	45 - 136	
2-Butanone (MEK)	100	117	117	53 - 140	
Tetrachloroethene	50.0	52.9	106	59 - 134	
Trichloroethene	50.0	48.0	96	68 - 130	
Vinyl chloride	50.0	46.5	93	38 - 153	
1,4-Dichlorobenzene	50.0	53.7	107	72 - 131	
Surrogate		% Rec		Acceptance Limits	
4-Bromofluorobenzene		111		70 - 130	
Dibromofluoromethane		106		70 - 130	
Toluene-d8 (Surr)		109		70 - 130	
1,2-Dichloroethane-d4 (Surr)		91		70 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

Method Blank - Batch: 600-16169

Method: 8270C

Preparation: 3510C

Lab Sample ID: MB 600-16169/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2009 1431
Date Prepared: 06/09/2009 1512

Analysis Batch: 600-16299
Prep Batch: 600-16169
Units: ug/L

Instrument ID: MSD2348
Lab File ID: Z0610904.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.00 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
1,4-Dichlorobenzene	1.3	U	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,5-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2-Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachloroethane	1.2	U	1.2	10
Nitrobenzene	1.2	U	1.2	10
Pentachlorophenol	0.89	U	0.89	50
Pyridine	1.0	U	1.0	10

Surrogate	% Rec	Acceptance Limits
Phenol-d6	31	10 - 94
Nitrobenzene-d5	78	35 - 114
2-Fluorophenol	47	21 - 100
2-Fluorobiphenyl	76	43 - 116
2,4,6-Tribromophenol	74	10 - 123
Terphenyl-d14	71	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

TCLP SPLPE Leachate Blank - Batch: 600-16169

Method: 8270C

Preparation: 3510C

TCLP

Lab Sample ID: LB 600-16122/1-E
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/10/2009 1645
Date Prepared: 06/09/2009 1512
Date Leached: 06/08/2009 1630

Analysis Batch: 600-16299
Prep Batch: 600-16169
Units: ug/L

Leachate Batch: 600-16122

Instrument ID: MSD2348
Lab File ID: Z0610908.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.00 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
1,4-Dichlorobenzene	1.3	U	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,5-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2-Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachloroethane	1.2	U	1.2	10
Nitrobenzene	1.2	U	1.2	10
Pentachlorophenol	0.89	U	0.89	50
Pyridine	1.0	U	1.0	10

Surrogate	% Rec	Acceptance Limits
Phenol-d6	36	10 - 94
Nitrobenzene-d5	89	35 - 114
2-Fluorophenol	55	21 - 100
2-Fluorobiphenyl	90	43 - 116
2,4,6-Tribromophenol	96	10 - 123
Terphenyl-d14	93	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 600-16169**

**Method: 8270C
Preparation: 3510C**

LCS Lab Sample ID: LCS 600-16169/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2009 1501
Date Prepared: 06/09/2009 1512

Analysis Batch: 600-16299
Prep Batch: 600-16169
Units: ug/L

Instrument ID: MSD2348
Lab File ID: Z0610905.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.00 mL
Injection Volume: 1.0 uL

LCSD Lab Sample ID: LCSD 600-16169/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2009 1532
Date Prepared: 06/09/2009 1512

Analysis Batch: 600-16299
Prep Batch: 600-16169
Units: ug/L

Instrument ID: MSD2348
Lab File ID: Z0610906.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.00 mL
Injection Volume: 1.0 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,4-Dichlorobenzene	68	69	45 - 105	1	20		
2,4-Dinitrotoluene	85	84	61 - 162	1	20		
2,4,5-Trichlorophenol	79	81	59 - 123	3	20		
2,4,6-Trichlorophenol	78	78	30 - 143	1	20		
2-Methylphenol	60	62	34 - 109	4	20		
3 & 4 Methylphenol	64	67	27 - 113	4	20		
Hexachlorobenzene	84	85	62 - 121	1	20		
Hexachlorobutadiene	76	77	32 - 143	1	20		
Hexachloroethane	69	70	42 - 110	1	20		
Nitrobenzene	78	80	55 - 115	3	20		
Pentachlorophenol	70	67	44 - 142	4	20	J	J
Pyridine	43	38	10 - 109	12	40		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Phenol-d6	37	39	10 - 94
Nitrobenzene-d5	85	85	35 - 114
2-Fluorophenol	49	52	21 - 100
2-Fluorobiphenyl	90	87	43 - 116
2,4,6-Tribromophenol	102	103	10 - 123
Terphenyl-d14	84	89	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

Method Blank - Batch: 600-16250

Method: 6010B
Preparation: 3010A

Lab Sample ID: MB 600-16250/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/11/2009 1049
Date Prepared: 06/10/2009 1555

Analysis Batch: 600-16296
Prep Batch: 600-16250
Units: mg/L

Instrument ID: TJA ICP 61E
Lab File ID: J061109
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Pb	0.0029	U	0.0029	0.010
Cr	0.0016	U	0.0016	0.010
Cd	0.00073	U	0.00073	0.0050
Ba	0.0016	U	0.0016	0.020
As	0.0033	U	0.0033	0.010
Ag	0.0012	U	0.0012	0.010
Se	0.0042	U	0.0042	0.040

TCLP SPLPE Leachate Blank - Batch: 600-16250

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID: LB 600-16122/1-G
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/11/2009 1057
Date Prepared: 06/10/2009 1555
Date Leached: 06/08/2009 1630

Analysis Batch: 600-16296
Prep Batch: 600-16250
Units: mg/L

Instrument ID: TJA ICP 61E
Lab File ID: J061109
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Leachate Batch: 600-16122

Analyte	Result	Qual	MDL	RL
Pb	0.0029	U	0.0029	0.010
Cr	0.0016	U	0.0016	0.010
Cd	0.00073	U	0.00073	0.0050
Ba	0.0061	J	0.0016	0.020
As	0.0066	J	0.0033	0.010
Ag	0.0012	U	0.0012	0.010
Se	0.0044	J	0.0042	0.040

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

Lab Control Sample - Batch: 600-16250

Method: 6010B
Preparation: 3010A

Lab Sample ID: LCS 600-16250/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/11/2009 1053
Date Prepared: 06/10/2009 1555

Analysis Batch: 600-16296
Prep Batch: 600-16250
Units: mg/L

Instrument ID: TJA ICP 61E
Lab File ID: J061109
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Pb	1.00	1.00	100	80 - 120	
Cr	1.00	0.981	98	80 - 120	
Cd	0.500	0.494	99	80 - 120	
Ba	1.00	1.01	101	80 - 120	
As	1.00	1.01	101	80 - 120	
Ag	0.500	0.490	98	80 - 120	
Se	1.00	1.00	100	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

Method Blank - Batch: 600-16195

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 600-16195/7-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2009 1431
Date Prepared: 06/10/2009 0900

Analysis Batch: 600-16247
Prep Batch: 600-16195
Units: ug/L

Instrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.021	U	0.021	0.20

TCLP SPLPE Leachate Blank - Batch: 600-16195

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID: LB 600-16122/1-F
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/10/2009 1501
Date Prepared: 06/10/2009 0900
Date Leached: 06/08/2009 1630

Analysis Batch: 600-16247
Prep Batch: 600-16195
Units: ug/L

Leachate Batch: 600-16122

Instrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.021	U	0.021	0.20

Lab Control Sample - Batch: 600-16195

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 600-16195/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/10/2009 1433
Date Prepared: 06/10/2009 0900

Analysis Batch: 600-16247
Prep Batch: 600-16195
Units: ug/L

Instrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	3.00	2.77	92	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 600-16195

Method: 7470A
Preparation: 7470A
TCLP

MS Lab Sample ID: 600-11197-4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/10/2009 1509
Date Prepared: 06/10/2009 0900
Date Leached: 06/08/2009 1630

Analysis Batch: 600-16247
Prep Batch: 600-16195

Leachate Batch: 600-16122

Instrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

MSD Lab Sample ID: 600-11197-4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/10/2009 1511
Date Prepared: 06/10/2009 0900
Date Leached: 06/08/2009 1630

Analysis Batch: 600-16247
Prep Batch: 600-16195

Leachate Batch: 600-16122

Instrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	95	95	75 - 125	0	20		

Duplicate - Batch: 600-16195

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID: 600-11197-4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/10/2009 1508
Date Prepared: 06/10/2009 0900
Date Leached: 06/08/2009 1630

Analysis Batch: 600-16247
Prep Batch: 600-16195
Units: ug/L

Leachate Batch: 600-16122

Instrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.021	U	0.021	NC	20	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

Method Blank - Batch: 600-16066

Method: 7.4.4

Preparation: 7.3.4

Lab Sample ID: MB 600-16066/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/09/2009 1223
Date Prepared: 06/08/2009 1220

Analysis Batch: 600-16165
Prep Batch: 600-16066
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Sulfide, Reactive	14	U	14	50

Lab Control Sample - Batch: 600-16066

Method: 7.4.4

Preparation: 7.3.4

Lab Sample ID: LCS 600-16066/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/09/2009 1223
Date Prepared: 06/08/2009 1220

Analysis Batch: 600-16165
Prep Batch: 600-16066
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfide, Reactive	1780	1140	64	0 - 100	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

Method Blank - Batch: 600-16066

Method: 9012
Preparation: 7.3.3

Lab Sample ID: MB 600-16066/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/09/2009 1301
Date Prepared: 06/08/2009 1220

Analysis Batch: 600-16157
Prep Batch: 600-16066
Units: ug/Kg

Instrument ID: WC05 Lachat-1
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Reactive	18	U	18	250

Lab Control Sample - Batch: 600-16066

Method: 9012
Preparation: 7.3.3

Lab Sample ID: LCS 600-16066/2-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 06/09/2009 1301
Date Prepared: 06/08/2009 1220

Analysis Batch: 600-16157
Prep Batch: 600-16066
Units: ug/Kg

Instrument ID: WC05 Lachat-1
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Reactive	1000000	57400	6	0 - 100	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

Lab Control Sample - Batch: 600-16015

Method: 9045C
Preparation: N/A

Lab Sample ID: LCS 600-16015/26
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/05/2009 1020
Date Prepared: N/A

Analysis Batch: 600-16015
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.00	7.010	100	99 - 101	

Duplicate - Batch: 600-16015

Method: 9045C
Preparation: N/A

Lab Sample ID: 600-11197-4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/05/2009 1020
Date Prepared: N/A

Analysis Batch: 600-16015
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 20 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	7.39	7.400	0	1	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

Method Blank - Batch: 600-16133

Method: D240-87

Preparation: N/A

Lab Sample ID: MB 600-16133/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/08/2009 1630
Date Prepared: N/A

Analysis Batch: 600-16133
Prep Batch: N/A
Units: BTU/lb

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0090 g
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
BTU	500	U	500	500

Lab Control Sample - Batch: 600-16133

Method: D240-87

Preparation: N/A

Lab Sample ID: LCS 600-16133/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/08/2009 1630
Date Prepared: N/A

Analysis Batch: 600-16133
Prep Batch: N/A
Units: BTU/lb

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0026 g
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
BTU	11400	11000	97	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

Method Blank - Batch: 600-16176

Method: D92
Preparation: N/A

Lab Sample ID: MB 600-16176/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/09/2009 1145
Date Prepared: N/A

Analysis Batch: 600-16176
Prep Batch: N/A
Units: Degrees F

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Flashpoint	>186		1.0	1.0

Lab Control Sample - Batch: 600-16176

Method: D92
Preparation: N/A

Lab Sample ID: LCS 600-16176/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/09/2009 1145
Date Prepared: N/A

Analysis Batch: 600-16176
Prep Batch: N/A
Units: Degrees F

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 60 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Flashpoint	81.0	82.0	101	96.91 - 103.09	

Calculations are performed before rounding to avoid round-off errors in calculated results.

DATA REPORTING QUALIFIERS

Client: Noltex LLC

Job Number: 600-11197-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Job Narrative
600-J11197-1

Comments

All three samples received were composited into one sample, and analysis was performed on the composite, per client request.

Receipt

All samples were received in good condition within temperature requirements.

Login Sample Receipt Check List

Client: Noltex LLC

Job Number: 600-11197-1

Login Number: 11197

List Source: TestAmerica Houston

Creator: Claunch, Todd F

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	2.3
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

3425
PACES



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/20/2009

Dear

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3425

Expiration Date 7/15/2011

Generator: CES Environmental Services - Port Arthur

Address: 2420 S. Gulfway Drive
Port Arthur, TX 77640

Waste Information

Name of Waste: Non-Haz Alcohol containing water from recycling of gasoline

TCEQ Waste Code #: 00081011

Container Type:

Detailed Description of Process Generating Waste:

Low flash water containing alcohols from recycling of gasoline and water mixtures

Color: Varies

Odor: Alcohol

pH: 3-11

Physical State:

Incompatibilities: Strong oxidizers, ignition sources

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000393



OL
Houston

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: Port Arthur Chemical and Environmental Services, LLC
Address: 2420 S Gulfway Dr
City: Port Arthur State: TX Zip: 77641
Contact: Matt Bowman Title: President
Phone Number: 713-676-1460 Fax Number: 713-676-1460
24/hr Phone Number: 713-826-1329
US EPA ID No: TXR000079307
State ID No: SIC Code:

SECTION 2: Billing Information - ☒ Same as Above

Company: _____
Address: _____
City: _____ State: _____ Zip: _____
Contact: _____ Title: _____
Phone Number: _____ Fax Number: _____

SECTION 3: General Description of the Waste

Name of Waste: Non-Haz Alcohol containing water from Recycling of Gasoline and
Detailed Description of Process Generating Waste: water mixtures
Low flash water containing alcohols from ~~NESH production plant~~ from

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination
Color: varies Odor: alcohol

Specific Gravity (water=1): 0.9-1 Density: 7.5-8.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Frequency: ☒ Weekly ☐ Monthly ☐ Yearly ☐ One-Time

Quantity: 5000

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009

☐ D010 ☐ D011

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

00081011

Non-RCRA/Non DOT regulated waste water (per 49 CFR 173.150 (e)(2))

Class: NA **UN/NA:** NA **PG :** NA **RQ:** NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
<140 deg F		3-11		NA <u>mg/l</u>		NA <u>mg/l</u>		<2 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
<1500	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. MSDS

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

strong oxidizers, ignition sources

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	<u>x</u>
TCLP Volatiles:	<u>x</u>
TCLP Semi-Volatiles:	<u>x</u>
Reactivity:	<u>x</u>
Corrosivity:	<u>x</u>
Ignitability:	<u>x</u>

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☒ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☒ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: _____

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 7-15-09

☒ Approved

☐ Rejected

Approval Number: _____

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1. Base Pricing (including freight):

\$0.09/gal + trans + fsc

2. Contamination Limit (maximum limit before surcharges apply):

< 10,000 TOC, < 2% solids, metals treat to permit levels

3. Surcharge Pricing:

- after 10,000 TOC surcharge per std rate sheet up to 0.25/gal total for TOC (surcharge + disposal)
- solids > 2% surcharge \$0.01/gal / % in excess of 2%
- other surcharges per rate sheet

4. Special Testing Requirements:

metals, TOC, flash pt, phenol, treatability

5. Treatment and Handling Protocol:

Sub cat C WW

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☒ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

--

Material Safety Data Sheet

Ethyl alcohol

ACC# 91467

Section 1 - Chemical Product and Company Identification

MSDS Name: Ethyl alcohol**Catalog Numbers:** A997-1GAL, A997-1PT, A997-55GAL, A997-5GAL**Synonyms:** Ethyl alcohol; Ethyl hydroxide; Fermentation alcohol; Grain alcohol; Methylcarbinol.**Company Identification:**Fisher Scientific
1 Reagent Lane
Fair Lawn, NJ 07410**For information, call:** 201-796-7100**Emergency Number:** 201-796-7100**For CHEMTREC assistance, call:** 800-424-9300**For International CHEMTREC assistance, call:** 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
64-17-5	Ethyl alcohol	95-99	200-578-6
7732-18-5	Water	1-5	231-791-2

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: colorless clear liquid. Flash Point: 16.6 deg C.**Warning!** Causes severe eye irritation. **Flammable liquid and vapor.** Causes respiratory tract irritation. This substance has caused adverse reproductive and fetal effects in humans. May cause central nervous system depression. May cause liver, kidney and heart damage. Causes moderate skin irritation.**Target Organs:** Kidneys, heart, central nervous system, liver.

Potential Health Effects

Eye: Causes severe eye irritation. May cause painful sensitization to light. May cause chemical conjunctivitis and corneal damage.**Skin:** Causes moderate skin irritation. May cause cyanosis of the extremities.**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause systemic toxicity with acidosis. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.**Inhalation:** Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Causes respiratory tract irritation. May cause narcotic effects in high concentration. Vapors may cause dizziness or suffocation.

Chronic: May cause reproductive and fetal effects. Laboratory experiments have resulted in mutagenic effects. Animal studies have reported the development of tumors. Prolonged exposure may cause liver, kidney, and heart damage.

Section 4 - First Aid Measures

Eyes: Get medical aid. Gently lift eyelids and flush continuously with water.

Skin: Get medical aid. Wash clothing before reuse. Flush skin with plenty of soap and water.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician: Treat symptomatically and supportively. Persons with skin or eye disorders or liver, kidney, chronic respiratory diseases, or central and peripheral nervous system diseases may be at increased risk from exposure to this substance.

Antidote: Replace fluid and electrolytes.

Section 5 - Fire Fighting Measures

General Information: Replace fluid and electrolytes. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

Flash Point: 16.6 deg C (61.88 deg F)

Autoignition Temperature: 363 deg C (685.40 deg F)

Explosion Limits, Lower: 3.3 vol %

Upper: 19.0 vol %

NFPA Rating: (estimated) Health: 2; Flammability: 3; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid

contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Do not store near perchlorates, peroxides, chromic acid or nitric acid.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Ethyl alcohol	1000 ppm TWA	1000 ppm TWA; 1900 mg/m ³ TWA 3300 ppm IDLH	1000 ppm TWA; 1900 mg/m ³ TWA
Water	none listed	none listed	none listed

OSHA Vacated PELs: Ethyl alcohol: 1000 ppm TWA; 1900 mg/m³ TWA Water: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Appearance: colorless

Odor: Mild, rather pleasant, like wine or whis

pH: Not available.

Vapor Pressure: 59.3 mm Hg @ 20 deg C

Vapor Density: 1.59

Evaporation Rate: Not available.

Viscosity: 1.200 cP @ 20 deg C

Boiling Point: 78 deg C

Freezing/Melting Point: -114.1 deg C

Decomposition Temperature: Not available.

Solubility: Miscible.

Specific Gravity/Density: 0.790 @ 20°C

Molecular Formula: C₂H₅OH

Molecular Weight: 46.0414

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, excess heat, oxidizers.

Incompatibilities with Other Materials: Strong oxidizing agents, acids, alkali metals, ammonia, hydrazine, peroxides, sodium, acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine pentafluoride, perchloric acid, silver nitrate, mercuric nitrate, potassium-tert-butoxide, magnesium perchlorate, acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate, potassium dioxide.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 64-17-5: KQ6300000

CAS# 7732-18-5: ZC0110000

LD50/LC50:

CAS# 64-17-5:

Draize test, rabbit, eye: 500 mg Severe;
 Draize test, rabbit, eye: 500 mg/24H Mild;
 Draize test, rabbit, skin: 20 mg/24H Moderate;
 Inhalation, mouse: LC50 = 39 gm/m³/4H;
 Inhalation, rat: LC50 = 20000 ppm/10H;
 Oral, mouse: LD50 = 3450 mg/kg;
 Oral, rabbit: LD50 = 6300 mg/kg;
 Oral, rat: LD50 = 7060 mg/kg;
 Oral, rat: LD50 = 9000 mg/kg;

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg;

Carcinogenicity:

CAS# 64-17-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: Ethanol has been shown to produce fetotoxicity in the embryo or fetus of laboratory animals. Prenatal exposure to ethanol is associated with a distinct pattern of congenital malformations that have collectively been termed the "fetal alcohol syndrome".

Teratogenicity: Oral, Human - woman: TDLo = 41 gm/kg (female 41 week(s) after conception)
 Effects on Newborn - Apgar score (human only) and Effects on Newborn - other neonatal measures or effects and Effects on Newborn - drug dependence.

Reproductive Effects: Intrauterine, Human - woman: TDLo = 200 mg/kg (female 5 day(s) pre-mating) Fertility - female fertility index (e.g. # females pregnant per # sperm positive females; # females pregnant per # females mated).

Mutagenicity: DNA Inhibition: Human, Lymphocyte = 220 mmol/L.; Cytogenetic Analysis: Human, Lymphocyte = 1160 gm/L.; Cytogenetic Analysis: Human, Fibroblast = 12000 ppm.;

Cytogenetic Analysis: Human, Leukocyte = 1 pph/72H (Continuous).; Sister Chromatid Exchange: Human, Lymphocyte = 500 ppm/72H (Continuous).

Neurotoxicity: No information found

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: Fish: Rainbow trout: LC50 = 12900-15300 mg/L; 96 Hr; Flow-through @ 24-24.3° CFish: Rainbow trout: LC50 = 11200 mg/L; 24 Hr; Fingerling (Unspecified) Bacteria: Phytobacterium phosphoreum: EC50 = 34900 mg/L; 5-30 min; Microtox test When spilled on land it is apt to volatilize, biodegrade, and leach into the ground water, but no data on the rates of these processes could be found. Its fate in ground water is unknown. When released into water it will volatilize and probably biodegrade. It would not be expected to adsorb to sediment or bioconcentrate in fish.

Environmental: When released to the atmosphere it will photodegrade in hours (polluted urban atmosphere) to an estimated range of 4 to 6 days in less polluted areas. Rainout should be significant.

Physical: No information available.

Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	ETHANOL	No information available.
Hazard Class:	3	
UN Number:	UN1170	
Packing Group:	II	

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 64-17-5 is listed on the TSCA inventory.

CAS# 7732-18-5 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 64-17-5: immediate, delayed, fire.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 64-17-5 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

CAS# 7732-18-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

WARNING: This product contains Ethyl alcohol, a chemical known to the state of California to cause developmental reproductive toxicity.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

F

Risk Phrases:

R 11 Highly flammable.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

S 33 Take precautionary measures against static discharges.

S 7 Keep container tightly closed.

S 9 Keep container in a well-ventilated place.

WGK (Water Danger/Protection)

CAS# 64-17-5: 0

CAS# 7732-18-5: No information available.

Canada - DSL/NDSL

CAS# 64-17-5 is listed on Canada's DSL List.

CAS# 7732-18-5 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 64-17-5 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 3/08/2000

Revision #8 Date: 9/26/2007

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

Material Safety Data Sheet

Ethanol, Absolute

ACC# 89308

Section 1 - Chemical Product and Company Identification

MSDS Name: Ethanol, Absolute**Catalog Numbers:** NC9602322**Synonyms:** Ethyl Alcohol; Ethyl Alcohol Anhydrous; Ethyl Hydrate; Ethyl Hydroxide; Fermentation Alcohol; Grain Alcohol; Methylcarbinol; Molasses Alcohol; Spirits of Wine.**Company Identification:**

Fisher Scientific
1 Reagent Lane
Fair Lawn, NJ 07410

For information, call: 201-796-7100**Emergency Number:** 201-796-7100**For CHEMTREC assistance, call:** 800-424-9300**For International CHEMTREC assistance, call:** 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
64-17-5	Ethanol	ca.100	200-578-6

Section 3 - H

Matt said there

EMERGE

Appearance: colorless clear liquid. Flash Poi

Warning! Causes severe eye irritation. F
irritation. This substance has caused adverse
central nervous system depression. May cause
skin irritation.

Target Organs: Kidneys, heart, central ne

iratory tract
. May cause
s moderate

Potential Health Effects

Eye: Causes severe eye irritation. May cause
conjunctivitis and corneal damage.

Skin: Causes moderate skin irritation. May cause cyanosis of the extremities.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause
systemic toxicity with acidosis. May cause central nervous system depression, characterized by
excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause
collapse, unconsciousness, coma and possible death due to respiratory failure.

Inhalation: Inhalation of high concentrations may cause central nervous system effects
characterized by nausea, headache, dizziness, unconsciousness and coma. Causes respiratory tract
irritation. May cause narcotic effects in high concentration. Vapors may cause dizziness or
suffocation.

Chronic: May cause reproductive and fetal effects. Laboratory experiments have resulted in

mutagenic effects. Animal studies have reported the development of tumors. Prolonged exposure may cause liver, kidney, and heart damage.

Section 4 - First Aid Measures

Eyes: Get medical aid. Gently lift eyelids and flush continuously with water.

Skin: Get medical aid. Wash clothing before reuse. Flush skin with plenty of soap and water.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cups of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician: Treat symptomatically and supportively. Persons with skin or eye disorders or liver, kidney, chronic respiratory diseases, or central and peripheral nervous system diseases may be at increased risk from exposure to this substance.

Antidote: None reported.

Section 5 - Fire Fighting Measures

General Information: Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

Flash Point: 16.6 deg C (61.88 deg F)

Autoignition Temperature: 363 deg C (685.40 deg F)

Explosion Limits, Lower: 3.3 vol %

Upper: 19.0 vol %

NFPA Rating: (estimated) Health: 2; Flammability: 3; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or

vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Do not store near perchlorates, peroxides, chromic acid or nitric acid.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Ethanol	1000 ppm TWA	1000 ppm TWA; 1900 mg/m3 TWA 3300 ppm IDLH	1000 ppm TWA; 1900 mg/m3 TWA

OSHA Vacated PELs: Ethanol: 1000 ppm TWA; 1900 mg/m3 TWA

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Appearance: colorless

Odor: Mild, rather pleasant, like wine or whis

pH: Not available.

Vapor Pressure: 59.3 mm Hg @ 20 deg C

Vapor Density: 1.59

Evaporation Rate: Not available.

Viscosity: 1.200 cP @ 20 deg C

Boiling Point: 78 deg C

Freezing/Melting Point: -114.1 deg C

Decomposition Temperature: Not available.

Solubility: Miscible.

Specific Gravity/Density: 0.790 @ 20°C

Molecular Formula: C₂H₅OH

Molecular Weight: 46.0414

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, excess heat, oxidizers.

Incompatibilities with Other Materials: Strong oxidizing agents, acids, alkali metals, ammonia, hydrazine, peroxides, sodium, acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine pentafluoride, perchloric acid, silver nitrate, mercuric nitrate, potassium-tert-butoxide, magnesium perchlorate, acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate, potassium dioxide.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 64-17-5: KQ6300000

LD50/LC50:

CAS# 64-17-5:

- Draize test, rabbit, eye: 500 mg Severe;
- Draize test, rabbit, eye: 500 mg/24H Mild;
- Draize test, rabbit, skin: 20 mg/24H Moderate;
- Inhalation, mouse: LC50 = 39 gm/m³/4H;
- Inhalation, rat: LC50 = 20000 ppm/10H;
- Oral, mouse: LD50 = 3450 mg/kg;
- Oral, rabbit: LD50 = 6300 mg/kg;
- Oral, rat: LD50 = 7060 mg/kg;
- Oral, rat: LD50 = 9000 mg/kg;

Carcinogenicity:

CAS# 64-17-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: Ethanol has been shown to produce fetotoxicity in the embryo or fetus of laboratory animals. Prenatal exposure to ethanol is associated with a distinct pattern of congenital malformations that have collectively been termed the "fetal alcohol syndrome".

Teratogenicity: Oral, Human - woman: TDLo = 41 gm/kg (female 41 week(s) after conception) Effects on Newborn - Apgar score (human only) and Effects on Newborn - other neonatal measures or effects and Effects on Newborn - drug dependence.

Reproductive Effects: Intrauterine, Human - woman: TDLo = 200 mg/kg (female 5 day(s) pre-mating) Fertility - female fertility index (e.g. # females pregnant per # sperm positive females; # females pregnant per # females mated).

Neurotoxicity: No information available.

Mutagenicity: DNA Inhibition: Human, Lymphocyte = 220 mmol/L.; Cytogenetic Analysis: Human, Lymphocyte = 1160 gm/L.; Cytogenetic Analysis: Human, Fibroblast = 12000 ppm.; Cytogenetic Analysis: Human, Leukocyte = 1 pph/72H (Continuous).; Sister Chromatid Exchange: Human, Lymphocyte = 500 ppm/72H (Continuous).

Other Studies: Standard Draize Test(Skin, rabbit) = 20 mg/24H (Moderate) Standard Draize Test: Administration into the eye (rabbit) = 500 mg (Severe).

Section 12 - Ecological Information

Ecotoxicity: Fish: Rainbow trout: LC50 = 12900-15300 mg/L; 96 Hr; Flow-through @ 24-24.3°
 CFish: Rainbow trout: LC50 = 11200 mg/L; 24 Hr; Fingerling (Unspecified) Bacteria:
 Phytobacterium phosphoreum: EC50 = 34900 mg/L; 5-30 min; Microtox test When spilled on land it is apt to volatilize, biodegrade, and leach into the ground water, but no data on the rates of these processes could be found. Its fate in ground water is unknown. When released into water it will volatilize and probably biodegrade. It would not be expected to adsorb to sediment or bioconcentrate in fish.

Environmental: When released to the atmosphere it will photodegrade in hours (polluted urban atmosphere) to an estimated range of 4 to 6 days in less polluted areas. Rainout should be significant.

Physical: No information available.

Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not reviewed.	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 64-17-5 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 64-17-5: acute, chronic, flammable.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 64-17-5 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

WARNING: This product contains Ethanol, a chemical known to the state of California to cause developmental reproductive toxicity.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

F

Risk Phrases:

R 11 Highly flammable.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

S 33 Take precautionary measures against static discharges.

S 7 Keep container tightly closed.

S 9 Keep container in a well-ventilated place.

WGK (Water Danger/Protection)

CAS# 64-17-5: 0

Canada - DSL/NDSL

CAS# 64-17-5 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of B2, D2A.

Canadian Ingredient Disclosure List

CAS# 64-17-5 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information
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MSDS Creation Date: 7/27/1999

Revision #4 Date: 3/18/2003

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

Material Safety Data Sheet

Methyl Alcohol, Reagent ACS, 99.8% (GC)

ACC# 95294

Section 1 - Chemical Product and Company Identification

MSDS Name: Methyl Alcohol, Reagent ACS, 99.8% (GC)**Catalog Numbers:** AC423950000, AC423950010, AC423950020, AC423955000, AC9541632, AC423952**Synonyms:** Carbinol; Methanol; Methyl hydroxide; Monohydroxymethane; Pyroxylic spirit; Wood alcohol; Wood naptha; Wood spirit; Monohydroxymethane; Methyl hydrate.**Company Identification:**

Acros Organics N.V.
One Reagent Lane
Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01**For emergencies in the US, call CHEMTREC:** 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
67-56-1	Methyl alcohol	99+	200-659-6

Hazard Symbols: T F**Risk Phrases:** 11 23/24/25 39/23/24/25

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: clear, colorless. Flash Point: 11 deg C. Poison! Cannot be made non-poisonous. Causes eye and skin irritation. May be absorbed through intact skin. This substance has caused adverse reproductive and fetal effects in animals. **Danger! Flammable liquid and vapor.** Harmful if inhaled. May be fatal or cause blindness if swallowed. May cause central nervous system depression. May cause digestive tract irritation with nausea, vomiting, and diarrhea. Causes respiratory tract irritation. May cause liver, kidney and heart damage.

Target Organs: Kidneys, heart, central nervous system, liver, eyes.**Potential Health Effects****Eye:** Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury. May cause painful sensitization to light.**Skin:** Causes moderate skin irritation. May be absorbed through the skin in harmful amounts. Prolonged and/or repeated contact may cause defatting of the skin and dermatitis.**Ingestion:** May be fatal or cause blindness if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause systemic toxicity with acidosis. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure. May cause cardiopulmonary system effects.**Inhalation:** Harmful if inhaled. May cause adverse central nervous system effects including

headache, convulsions, and possible death. May cause visual impairment and possible permanent blindness. Causes irritation of the mucous membrane.

Chronic: Prolonged or repeated skin contact may cause dermatitis. Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion. Chronic exposure may cause reproductive disorders and teratogenic effects. Laboratory experiments have resulted in mutagenic effects. Prolonged exposure may cause liver, kidney, and heart damage.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Induce vomiting by giving one teaspoon of Syrup of Ipecac.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician: Effects may be delayed. Ethanol may inhibit methanol metabolism.

Section 5 - Fire Fighting Measures

General Information: Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Water may be ineffective. Material is lighter than water and a fire may be spread by the use of water. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. May be ignited by heat, sparks, and flame.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. For large fires, use water spray, fog or alcohol-resistant foam. Do NOT use straight streams of water.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Scoop up with a nonsparking tool, then place into a suitable container for disposal. Use water spray to disperse the gas/vapor. Remove all sources of ignition. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as saw dust. Provide ventilation. A vapor suppressing foam may be used to reduce vapors. Water spray may reduce vapor but may not prevent ignition in closed spaces.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid contact with heat, sparks and flame. Do not ingest or inhale. Use only in a chemical fume hood. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Keep containers tightly closed. Do not store in aluminum or lead containers.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use only under a chemical fume hood.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Methyl alcohol	200 ppm TWA; 250 ppm STEL; skin - potential for cutaneous absorption	200 ppm TWA; 260 mg/m ³ TWA 6000 ppm IDLH	200 ppm TWA; 260 mg/m ³ TWA

OSHA Vacated PELs: Methyl alcohol: 200 ppm TWA; 260 mg/m³ TWA; 250 ppm STEL; 325 mg/m³ STEL

Personal Protective Equipment

Eyes: Wear chemical goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR §1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: clear, colorless

Odor: alcohol-like - weak odor

pH: Not available.

Vapor Pressure: 128 mm Hg @ 20 deg C

Vapor Density: 1.11 (Air=1)

Evaporation Rate: 5.2 (Ether=1)

Viscosity: 0.55 cP 20 deg C

Boiling Point: 64.7 deg C @ 760.00mm Hg

Freezing/Melting Point: -98 deg C

Autoignition Temperature: 464 deg C (867.20 deg F)

Flash Point: 11 deg C (51.80 deg F)

Decomposition Temperature: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 3; Reactivity: 0

Explosion Limits, Lower: 6.0 vol %

Upper: 36.00 vol %

Solubility: miscible

Specific Gravity/Density: .7910g/cm³

Molecular Formula: CH₄O

Molecular Weight: 32.04

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: High temperatures, incompatible materials, ignition sources, oxidizers.

Incompatibilities with Other Materials: Acids (mineral, non-oxidizing, e.g. hydrochloric acid, hydrofluoric acid, muriatic acid, phosphoric acid), acids (mineral, oxidizing, e.g. chromic acid, hypochlorous acid, nitric acid, sulfuric acid), acids (organic, e.g. acetic acid, benzoic acid, formic acid, methanoic acid, oxalic acid), azo, diazo, and hydrazines (e.g. dimethyl hydrazine, hydrazine, methyl hydrazine), isocyanates (e.g. methyl isocyanate), nitrides (e.g. potassium nitride, sodium nitride), peroxides and hydroperoxides (organic, e.g. acetyl peroxide, benzoyl peroxide, butyl peroxide, methyl ethyl ketone peroxide), epoxides (e.g. butyl glycidyl ether), Oxidants (such as barium perchlorate, bromine, chlorine, hydrogen peroxide, lead perchlorate, perchloric acid, sodium hypochlorite), Active metals (such as potassium and magnesium), acetyl bromide, alkyl aluminum salts, beryllium dihydride, carbontetrachloride, carbon tetrachloride + metals, chloroform + heat, chloroform + sodium hydroxide, cyanuric chloride, diethyl zinc, nitric acid, potassium-tert-butoxide, chloroform + hydroxide, water reactive substances (e.g. acetic anhydride, alkyl aluminum chloride, calcium carbide, ethyl dichlorosilane).

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, formaldehyde.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 67-56-1: PC1400000

LD50/LC50:

CAS# 67-56-1:

Draize test, rabbit, eye: 40 mg Moderate;

Draize test, rabbit, eye: 100 mg/24H Moderate;

Draize test, rabbit, skin: 20 mg/24H Moderate;

Inhalation, rat: LC50 = 64000 ppm/4H;

Oral, mouse: LD50 = 7300 mg/kg;

Oral, rabbit: LD50 = 14200 mg/kg;

Oral, rat: LD50 = 5628 mg/kg;

Skin, rabbit: LD50 = 15800 mg/kg;

Carcinogenicity:

CAS# 67-56-1: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: Methanol has been shown to produce fetotoxicity in the embryo or fetus of laboratory animals. Specific developmental abnormalities include cardiovascular, musculoskeletal, and urogenital systems.

Teratogenicity: Effects on Newborn: Behavioral, Oral, rat: TDLo=7500 mg/kg (female 17-19 days after conception). Effects on Embryo or Fetus: Fetotoxicity, Inhalation, rat: TCLo=10000

ppm/7H (female 7-15 days after conception). Specific Developmental Abnormalities: Cardiovascular, Musculoskeletal, Urogenital, Inhalation, rat: TCLo=20000 ppm/7H (7-14 days after conception).

Reproductive Effects: Paternal Effects: Spermatogenesis: Intraperitoneal, mouse TDLo=5 g/kg (male 5 days pre-mating). Fertility: Oral, rat: TDLo = 35295 mg/kg (female 1-15 days after conception). Paternal Effects: Testes, Epididymis, Sperm duct: Oral, rat: TDLo = 200 ppm/20H (male 78 weeks pre-mating).

Neurotoxicity: No information available.

Mutagenicity: DNA inhibition: Human Lymphocyte = 300 mmol/L. DNA damage: Oral, rat = 10 umol/kg. Mutation in microorganisms: Mouse Lymphocyte = 7900 mg/L. Cytogenetic analysis: Oral, mouse = 1 gm/kg.

Other Studies: Standard Draize Test(Skin, rabbit) = 20 mg/24H (Moderate) S standard Draize Test: Administration into the eye (rabbit) = 40 mg (Moderate). Standard Draize test: Administration into the eye (rabbit) = 100 mg/24H (Moderate).

Section 12 - Ecological Information

Ecotoxicity: Fish: Fathead Minnow: 29.4 g/L; 96 Hr; LC50 (unspecified) Goldfish: 250 ppm; 11 Hr; resulted in death Rainbow trout: 8000 mg/L; 48 Hr; LC50 (unspecified) Rainbow trout: LC50 = 13-68 mg/L; 96 Hr.; 12 degrees C Fathead Minnow: LC50 = 29400 mg/L; 96 Hr.; 25 degrees C, pH 7.63 Rainbow trout: LC50 = 8000 mg/L; 48 Hr.; Unspecified ria: Phytobacterium phosphoreum: EC50 = 51,000-320,000 mg/L; 30 minutes; Microtox test No data available.

Environmental: Dangerous to aquatic life in high concentrations. Aquatic toxicity rating: TLm 96>1000 ppm. May be dangerous if it enters water intakes. Methyl alcohol is expected to biodegrade in soil and water very rapidly. This product will show high soil mobility and will be degraded from the ambient atmosphere by the reaction with photochemically produced hydroxyl radicals with an estimated half-life of 17.8 days. Bioconcentration factor for fish (golden ide) < 10. Based on a log Kow of -0.77, the BCF value for methanol can be estimated to be 0.2.

Physical: No information available.

Other: None.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: CAS# 67-56-1: waste number U154; (Ignitable waste).

Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
Shipping Name:	METHANOL				METHANOL
Hazard Class:	3				3(6.1)
UN Number:	UN1230				UN1230
Packing Group:	II				II
Additional Info:					FLASHPOINT

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 67-56-1 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

CAS# 67-56-1: final RQ = 5000 pounds (2270 kg)

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 67-56-1: acute, flammable.

Section 313

This material contains Methyl alcohol (CAS# 67-56-1, 99%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

CAS# 67-56-1 is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 67-56-1 can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

T F

Risk Phrases:

R 11 Highly flammable.

R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R 39/23/24/25 Toxic : danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Safety Phrases:

S 16 Keep away from sources of ignition - No

smoking.

S 36/37 Wear suitable protective clothing and gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 7 Keep container tightly closed.

WGK (Water Danger/Protection)

CAS# 67-56-1: 1

Canada

CAS# 67-56-1 is listed on Canada's DSL List. CAS# 67-56-1 is listed on Canada's DSL List. This product has a WHMIS classification of B2, D1A, D2B.

CAS# 67-56-1 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 67-56-1: OEL-ARAB Republic of Egypt:TWA 200 ppm (260 mg/m³);Skin OEL-AUSTRALIA:TWA 200 ppm (260 mg/m³);STEL 250 ppm;Skin OEL-BELGIUM:TWA 200 ppm (262 mg/m³);STEL 250 ppm;Skin OEL-CZECHOSLOVAKIA:TWA 100 mg/m³;STEL 500 mg/m³ OEL-DENMARK:TWA 200 ppm (260 mg/m³);Skin OEL-FINLAND:TWA 200 ppm (260 mg/m³);STEL 250 ppm;Skin OEL-FRANCE:TWA 200 ppm (260 mg/m³);STEL 1000 ppm (1300 mg/m³) OEL-GERMANY:TWA 200 ppm (260 mg/m³);Skin OEL-HUNGARY:TWA 50 mg/m³;STEL 100 mg/m³;Skin JAN9 OEL-JAPAN:TWA 200 ppm (260 mg/m³);Skin OEL-THE NETHERLANDS:TWA 200 ppm (260 mg/m³);Skin OEL-THE PHILIPPINES:TWA 200 ppm (260 mg/m³) OEL-POLAND:TWA 100 mg/m³ OEL-RUSSIA:TWA 200 ppm;STEL 5 mg/m³;Skin OEL-SWEDEN:TWA 200 ppm (250 mg/m³);STEL 250 ppm (350 mg/m³);Skin OEL-SWITZERLAND:TWA 200 ppm (260 mg/m³);STEL 400 ppm;Skin OEL-THAILAND:TWA 200 ppm (260 mg/m³) OEL-TURKEY:TWA 200 ppm (260 mg/m³) OEL-UNITED KINGDOM:TWA 200 ppm (260 mg/m³);STEL 250 ppm;Skin OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

Section 16 - Additional Information

MSDS Creation Date: 7/21/1999

Revision #4 Date: 3/14/2001

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

3426
GATX (Heavine)

7C

8-4-09

LAB

T-35



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/15/2009

Dear **Ricardo Salias**

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3426

Expiration Date 7/15/2011

Generator: GATX (Hearne)

Address: 1401 W. Brown St.
Hearne, TX 77859

Waste Information

Name of Waste: Petroleum Alkylates

TCEQ Waste Code #: 99032191

Container Type:

Detailed Description of Process Generating Waste:

Removal of heel prior to cleaning RCRA empty rail cars

Color: Clear

Odor: Mild

pH: Na

Physical State:

Incompatibilities: Please list ALL incompatibilities (if any)

Safety Related Data/Special Handling:

Standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

OL
Houston
DC/LS



<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4901 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950481 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
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SECTION 1: Generator Information

Company: GATX Rail
Address: 140 W. Brown Street
City: Hearne State: TX Zip: 77859
Contact: Ricardo Salas Title:
Phone Number: 979-279-3481 Fax Number: 979-279-3020
24/hr Phone Number:
US EPA ID No: TXD00835207
State ID No: 32643 SIC Code: NA

SECTION 2: Billing Information ☐ Same as Above

Company: GATX (Hearne)
Address: PO Box 969
City: Hearne State: TX Zip: 77859
Contact: Title:
Phone Number: Fax Number:

SECTION 3: General Description of the Waste

Name of Waste: Petroleum Alkylates
Detailed Description of Process Generating Waste:
removal of heel prior to cleaning RCRA empty rail cars

Physical State: ☒ Liquid ☒ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination
Color: clear Odor: mild

Specific Gravity (water=1): 0.862 Density: 7.189 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☐ One-Time

Quantity: 5

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☒ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is It: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "C" Listed waste or mixed with one? ☐ Yes ☒ No
If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number:

09032191

Proper US DOT Shipping Name: Non RCRA Non DOT Regulated Material

Class:	NA	UN/NA:	NA	PG:	NA	RQ:	NA
---------------	----	---------------	----	------------	----	------------	----

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
275F		NA		0 mg/l		0 mg/l		0-2 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
NA	mg/l	NA	mg/l	0	mg/l	0	mg/l	0	mg/l

SECTION 4: Physical and Chemical Data

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. MSDS

SECTION 7: Incompatibilities

Please list ALL Incompatibilities (if any):

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals: X
 TCLP Volatiles: X
 TCLP Semi-Volatiles: X
 Reactivity: X
 Corrosivity: X
 Ignitability: X

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?
 If 'Yes', complete this section.

☐ YES ☒ NO

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
 Chromium: 8.9 mg/L
 Copper: 4.9 mg/L
 Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: _____

7/14/9

Printed Name/Title: _____

Ricardo Salinas

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 7-15-09

☒ Approved☐ Rejected

Approval Number: _____



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$65.00/drum plus freight

2. Contamination Limit (maximum limit before surcharges apply):

NA

3. Surcharge Pricing:

NA

4. Special Testing Requirements:

NA

5. Treatment and Handling Protocol:

Put in class 1 box

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

NA

8. Management for Product Recovered/Recycled (if applicable)

NA

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING
OF PRODUCT

MSDS CODE AND NAME	:	ALK215	ALKYLATE 215
DATE ISSUED	:	7/1/2004	
DATE PRINTED	:	7/1/2004	

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY

MSDS CODE AND NAME

ALK215 ALKYLATE 215

Chemical Name and/or Family or Description:

Linear Alkylbenzene

COMPANY INFORMATIONHuntsman Petrochemical Corporation
P.O. Box 4980
The Woodlands, TX 77387-4980**TELEPHONE NUMBERS**

Transportation Emergency

Company: (409) 727-0831

CHEMTREC: (800) 424-9300

Medical Emergency: (409) 722-9673 (24 Hour)

General MSDS Assistance: (281) 719-6432

Technical Information: (512) 459-6543

2. COMPOSITION AND INFORMATION ON INGREDIENTS

THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION ARE AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER; COMPONENTS WHICH ARE OTHERWISE HAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR GREATER; NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND OTHER REGULATORY INFORMATION.

Product and/or Component(s) Carcinogenic According to:

OSHA IARC NTP OTHER NONE X

Composition:

Chemical Name	CAS Number	Exposure Limits	Range in %
Benzene, C10-16 alkyl derivatives	68648-87-3		100.00

MSDS CODE AND NAME : **ALK215 ALKYLATE 215**
DATE ISSUED : **7/1/2004**
DATE PRINTED : **7/1/2004**
COMPANY : **HUNTSMAN**

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Appearance:

Clear liquid

Odor:

Mild odor

WARNING STATEMENT

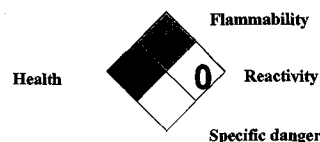
CAUTION!

MAY CAUSE SKIN IRRITATION
ASPIRATION HAZARD IF SWALLOWED -
CAN ENTER LUNGS AND CAUSE DAMAGE

**Hazardous Material
Information System
(United States)**

Health	2
Fire	1
Reactivity	0
Personal protection	

**National Fire Protection
Association NFPA
(United States)**



POTENTIAL HEALTH EFFECTS

Primary Route of Exposure

Eye X Skin X Inhalation X Ingestion

Effects of Overexposure

Acute:

Eyes: May cause irritation, experienced as mild discomfort and seen as slight excess redness of the eye.

Skin: May cause irritation with discomfort, and seen as local redness and possible swelling. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort. Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact; see other effects, below, and Section 11 for information regarding potential long term effects.

Inhalation: Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.

Ingestion: If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

Sensitization Properties: Unknown

Chronic:

No adverse effects have been documented in humans as a result of chronic exposure. Section 11 may contain applicable animal data.

Medical Conditions Aggravated by Exposure:

There is no evidence that this product aggravates an existing medical condition.

Other Remarks:

None

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4. FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

Skin:

Wash skin with plenty of soap and water until all traces of material are removed. Remove and clean contaminated clothing and shoes. Get medical attention if skin irritation persists or contact has been prolonged.

Ingestion:

If person is conscious and can swallow, give two glasses of water (16 oz.), but do not induce vomiting. If vomiting occurs, give fluids again. Have medical personnel determine if evacuation of stomach or induction of vomiting is necessary. Do not give anything by mouth to an unconscious or convulsing person.

Inhalation:

If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

Other Instructions:

Aspiration of this product during induced emesis may result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Center for additional treatment information.

5. FIRE-FIGHTING MEASURES

Ignition Temperature - AIT (degrees C):

Not determined.

Flash Point (degrees C):

135 (275 F) (COC)

Flammable Limits % (Lower-Upper):

Lower: Not determined.

Upper: Not determined.

Recommended Fire Extinguishing Agents And Special Procedures:

Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

Unusual or Explosive Hazards:

None

Special Protective Equipment for Firefighters:

Wear full protective clothing and positive pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES (Transportation Spills: CHEMTREC (800)424-9300)

Procedures in Case of Accidental Release, Breakage or Leakage:

Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

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7. HANDLING AND STORAGE

Precautions to be Taken in

Handling:

Minimum feasible handling temperatures should be maintained.

Storage:

Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment (Type)

Eye/Face Protection:

Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

Skin Protection:

Protective clothing such as coveralls or lab coats should be worn. Launder or dry-clean when soiled. Gloves and boots resistant to chemicals and petroleum distillates required. Exposed workers should wash exposed skin several times daily with soap and water.

Respiratory Protection:

Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

Ventilation:

Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.

Exposure Limit for the Total Product:

None established for product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Clear liquid

Odor:

Mild odor

Boiling Point (degrees C):

279-295 (534-563 F)

Melting/Freezing Point (degrees C):

Not determined.

Specific Gravity (water=1):

0.862 at 15.6C/15.6C (60F/60F)

pH:

Not applicable.

Vapor Pressure:

Not determined.

Viscosity:

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4.20 cSt at 37.8 C (100 F)

VOC Content:

Not determined

Vapor Density (Air=1):

Not determined.

Solubility in Water (%):

<0.1

Other:

None

10. STABILITY AND REACTIVITY

This Material Reacts Violently With:

Air **Water** **Heat** **Strong Oxidizers** **Others** **None of these X**

Comments:

None

Products Evolved When Subjected to Heat or Combustion:

Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones.

Hazardous Polymerizations:

DO NOT OCCUR

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)

Oral:

LD50 17.00 g/kg (rat) practically non-toxic

Dermal:

LD50 >10.2 g/kg (rabbit) practically non-toxic

Inhalation:

No more than slightly toxic under the conditions of the test (Rat 4-hr LC50 >1.82 mg/L air)

IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)

Eyes:

(Draize) 20.8 /110 (rabbit) slightly irritating

Skin:

(Draize) 3.6 /8.0 (rabbit) moderately irritating

Sensitization:

Not determined.

Other:

Skin irritation was reported in human volunteers following single and repeated skin application of Alkylate 215. Following repeated exposures (4 week) to Alkylate 215 in their feed, rats exhibited decreased body weights and food consumption. Eye and nose irritation, reduced body weights, some organ weight changes and a loss of abdominal fat occurred following repeated (4 week) inhalation of Alkylate 215 by rats and mice. Similar exposures for a longer period (3 month) resulted in reduced body weight gains and produced liver toxicity (only at the highest exposure level) and various signs of irritation. An increase in minor skeletal birth defects was observed in offspring of rats exposed to Alkylate 215 orally during pregnancy, but only at an amount which produced adverse effects on the mothers and their offspring. Reductions in litter size and viability, survival and weights of pups occurred at dose levels producing parental toxicity when rats were given Alkylate 215 orally for two successive generations. Alkylate 215 produced no genetic changes in standard tests using animals and animal or bacterial cells.

Dodecylbenzene (C12-alkylbenzene), a component of Alkylate 215, has been reported to enhance genetic changes induced by a known carcinogen in a standard test using animal cells. Dodecylbenzene has been used as a vehicle and solvent for polynuclear

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aromatics in carcinogenesis studies and may enhance the tumorigenic potential of known carcinogens.

Mice exposed chronically to alkylbenzenes (branched C10-C15 or linear C9-10) had increases in lymphomas and skin tumors. Significant skin damage was present at the levels used in these studies.

12. DISPOSAL CONSIDERATIONS:

Waste Disposal Methods:

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

Remarks:

None

13. TRANSPORT INFORMATION

Transportation

DOT:

Proper Shipping Name:
Not regulated

Hazard Class:
Not regulated

Identification Number:
Not regulated

Packing Group:
Not regulated

Label Required:
Not regulated

IMDG

Proper Shipping Name:
Not regulated.

ICAO

Proper Shipping Name:
Not regulated.

TDG

Proper Shipping Name:
Not regulated

Hazard Class:
Not regulated

Identification Number:
Not regulated

Label Required:
Not regulated

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DATE ISSUED : **7/1/2004**
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14. REGULATORY INFORMATION

Federal Regulations:

SARA Title III:

Section 302/304 Extremely Hazardous Substances

Chemical Name	CAS Number	Range in %	TPQ	RQ
None.				

Section 311 Hazardous Categorization:

Acute X	Chronic X	Fire	Pressure	Reactive	N/A

Section 313 Toxic Chemical

Chemical Name	CAS Number	Concentration
None.		

CERCLA 102(a)/DOT Hazardous Substances:

Chemical Name	CAS Number	Range in %	RQ
None.			

States Right-to-Know Regulations:

Chemical Name	State Right-to-know
None.	

California Prop. 65:

The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

Chemical Name	CAS Number
None.	

INTERNATIONAL REGULATIONS:

TSCA Inventory Status:

This product, or its components, are listed on, or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

WHMIS Classification:

Class D, Div 2, Subdiv B: Irritant

Canadian Inventory Status:

This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).

EINECS Inventory Status:

This product, or its components, are listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).

Australian Inventory Status:

This product, or its components, are listed on or are exempt from the Australian Inventory of Chemical Substances (AICS).

Japan Inventory Status:

This product, or its components, are listed on or are exempt from the Japanese Ministry of International Trade and Industry (MITI) inventory.

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15. ENVIRONMENTAL INFORMATION

Aquatic Toxicity:

48 hr EC50 Daphnia magna:	0.08 mg/L, Very Toxic
48 hr LC50 Scud:	>1.4 mg/L, Toxic
48 hr LC50 Midge larvae:	>1.4 mg/L, Toxic
96 hr LC50 Rainbow trout:	>1,000 mg/L, Practically Nontoxic
96 hr LC50 Fathead minnow:	>1,000 mg/L, Practically Nontoxic
96 hr LC50 Bluegill sunfish:	>1,000 mg/L, Practically Nontoxic
96 hr LC50 Mysid shrimp:	>500 micrograms/L, Very Toxic

Daphnia magna were exposed to Alkylate 215 at concentrations of <1, 1.2, 2.3, 9.5 and 25 micrograms/L through one generation (21 days). Reductions in adult Daphnia survival and in reproduction were observed at concentrations of 9.5 micrograms/L and higher. The maximum acceptable toxicant concentration was considered to be between 2.3 and 9.5 micrograms/L.

Mobility:

Not determined.

Persistence and Biodegradability:

Alkylate 215 was evaluated in natural water microcosms and in shake flask carbon dioxide evolution assays. The test results indicate that this product undergoes rapid primary biodegradation in natural waters, and biodegradation continues to complete mineralization under aerobic conditions.

Potential to Bioaccumulate:

The bioconcentration potential of the C12 homolog of Alkylate 215 was measured over a 96 hour period. It was determined that this material has a low potential to bioaccumulate in fish.

Remarks:

None

16. OTHER INFORMATION 7/1/2004

None

Date Issued: 7/1/2004.

THE INFORMATION IN THIS DATA SHEET IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT. IT IS PROVIDED FOR THE PURPOSE OF HAZARD COMMUNICATION AS PART OF HUNTSMAN'S PRODUCT SAFETY PROGRAM. IT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE PRODUCT BY A PROPERLY TRAINED PERSON. YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN. THE DATA RELATES ONLY TO THE SPECIFIC PRODUCT DESIGNATED, AND DOES NOT RELATE TO USE OF THE PRODUCT IN COMBINATION WITH ANY OTHER MATERIAL OR USE OF THE PRODUCT IN ANY PROCESS. THE DATA IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY FOR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT, ITS COMPOSITION, ITS SAFETY OR THE INFORMATION CONTAINED IN THIS DATA SHEET.

TO DETERMINE THE APPLICABILITY OR THE EFFECTS OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, THE USER SHOULD CONSULT A LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. HUNTSMAN DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS.

CURRENT DATA SHEETS ARE AVAILABLE FOR ALL HUNTSMAN PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL HUNTSMAN PRODUCTS YOU BUY, USE OR DISTRIBUTE BY CALLING (281) 719-6432 OR DIRECTING YOUR INQUIRIES TO:

HUNTSMAN
MANAGER, PRODUCT SAFETY
P.O. BOX 4980
THE WOODLANDS, TX 77387-4980

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM HUNTSMAN. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET SHOULD BE DIRECTED TO HUNTSMAN, MANAGER, PRODUCT SAFETY AT THE ABOVE ADDRESS.

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MSDS CODE AND NAME : ALK215 ALKYLATE 215
DATE ISSUED : 7/1/2004
DATE PRINTED : 7/1/2004
COMPANY : HUNTSMAN

3392
China Plant



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/24/2009

Dear Ron Kohler

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3392

Expiration Date 6/24/2011

Generator: China Plant

Address: 500 Old Sour Lake Rd
China, TX

Waste Information

Name of Waste: Carbon Pellets

TCEQ Waste Code #: CESQ4041

Container Type: Vac box

Detailed Description of Process Generating Waste:

Pellets used to remove any hydrocarbons from amine process

Color: Black

Odor: hydrocarbon

pH: 6-8

Physical State:

Incompatibilities:

Safety Related Data/Special Handling:

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.


**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

4/5/mm
OS
Houston

SECTION 1: Generator Information

Company: China Plant
 Address: 500 Old Sour Lake Rd.
 City, State, Zip: China Tx.
 Contact: John Sablatuna Title: Operations Mgr.
 Phone No: 361-72-2863 Fax No: _____
 24/hr Phone: _____
 U.S. EPA I.D. No: CESQ
 State I.D. CESQ SIC Code: _____

SECTION 2: Billing Information ~~Same as Above~~

Company: Select Environmental
 Address: 223 McCarty Dr.
 City, State, Zip: Houston, TX. 77029
 Contact: Karen White Title: Sales
 Phone No: 281-960-3967 Fax No: 713-255-1761

SECTION 3: General Description of the Waste

Name of Waste: Carbon Pellets
 Detailed Description of Process Generating Waste: Pellets used to remove any hydrocarbons from amine process

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: Black Odor: Hydrocarbon

Specific Gravity (water=1): _____ Density: _____ lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)
 Container Size: _____ 55 gal box

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly

Number of Units (containers): _____ Other: _____

Texas State Waste Code No: CESQ 44041

Proper U.S. DOT Shipping Name: Non-RCRA, Non-DOT material

Class: na UN/NA: na PG: na RQ: na

Flash Point 7150	pH 6-8	Reactive Sulfides ≤20 mg/l	Reactive Cyanides ≤20 mg/l	Solids 100 %
Oil & Grease NA mg/l	TOC NA mg/l	Zinc NA mg/l	Copper NA mg/l	Nickel NA mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Carbon Pellets		90
Water		10

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ☒

TCLP Volatiles: ☒

TCLP Semi-Volatiles: ☒

Reactivity: ☒

Corrosivity: ☒

Ignitability: ☒

SECTION 9: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: John Sablatore

Date: 6-16-09

Printed Name/Title: J. Sablatore

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [Signature]

Date: 6-24-09 ☒ Approved ☐ Rejected

Approval Number: 3392

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

**PROCESS FACILITY INFORMATION (CES USE ONLY!!)****1. Base Pricing (including freight):**

\$165/yard + trans + fsc

2. Contamination Limits (maximum limit before surcharges apply):**3. Surcharge Pricing:****4. Special Testing Requirements:****5. Treatment and Handling Protocol:**

Class 1 solids landfill

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable):

--



 **REGISTERED TO**
ISO 9001:2008

LCS Reference: T2009-2035H

CUSTOMER: Reference:

Solution is Through Chemistry

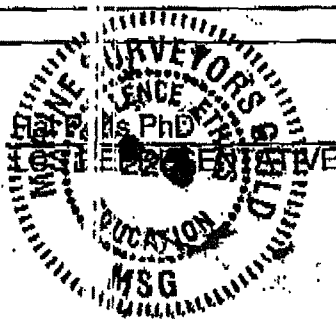
FOR: Select Environmental
PRODUCT: Carbon Pellets

SAMPLE DRAWN FROM: Submitted
LOCATION: Pasadena, Texas
DATE of ANALYSIS: June 19, 2009

DATE of ANALYSIS: June 19, 2009



TEST	TEST METHOD	PREP M	THOD	DETECTION LIMITS,ppm	RESULTS
RCI	EPA SW 846				
CORROSIONITY -pH					7.85
REACTIVITY-S					<1
REACTIVITY-CN					<1
IGNITABILITY °F					172
TPH	EPA SW-846/8440				341 ppm



EPAHQ109000446

3393

Drillmec Inc



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/25/2009

Dear Zac or Dave

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3393

Expiration Date 6/24/2011

Generator: Drillmec Inc.

Address: 162 Woolridge
Conroe, TX 77301

Waste Information

Name of Waste: Recyclable Oily water

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

oily water from washing out an oil tank

Color: dark

Odor: hydrocarbon

pH: 7

Physical State:

Incompatibilities: Strong oxidizers

Safety Related Data/Special Handling:

Standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000448



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
<http://www.cesenvironmental.com>
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

#3393
Recycle
Houston

SECTION 1: Generator Information

Company : Drillmec Inc.
Address : 162 Woolridge
City, State, Zip : Conroe TX 77301
Contact : Bob Parker Title :
Phone No : (936) 756-2071 Fax : (936) 441-1444
24 / HR Phone :
U.S EPA I.D No : TXCESQG
State I.D : CESQG SIC Code

SECTION 2: Billing Information

Company : CKG Services Conroe
Address : 7420 Honea Egypt Road
City, State, Zip : Montgomery TX 77316
Contact : Zac or Dave Title :
Phone No : (936) 483-3662 Fax : (936) 756-1226

SECTION 3: General Description of the Waste

Name of Waste : Recyclable oily water

Detailed Description of the Process Generating Waste:

oily water from cleaning out oily tank

Physical State : ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color : dark Odor : hydrocarbon

Specific Gravity (Water=1) : 1 Density : 8.34 lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Layers : ☒ Single-Phas ☐ Multi-Phase

Container Type : ☐ Drum ☒ Tote ☐ Truck ☐ Other (explain)

Container Size : 300

Number Of Units : 1

Is this a USEPA "Hazardous Waste" per 40 CFR 261.3? ☐ Yes ☒ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", is it: ☐ D001 ☐ D002 ☐ D003

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007
☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristics for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code No : recycle

Proper U.S. State Waste Code No : Recyclable hydrocarbon and water mixture

Class : na UN/NA : na PG : na RQ : na

Flash Point >140	pH 7	Reactive Sulfides 0 mg/l	Reactive Cyanides 0 mg/l	Solids <2 %
Oil and Grease >1000 mg/l	TOC >1500 mg/l	Zinc 0 mg/l	Copper 0 mg/l	Nickel 0 mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The material / product consists of the following materials		Ranges are acceptable	or %
oil		85-90	%
water		10-15	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
strong oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : ☒
TCLP Volatiles : ☒
TCLP Semi-Volatiles : ☒
Reactivity : ☒

Corrosivity : ☒ X
Ignitability : ☒ X

SECTION 9: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☒ YES NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☒ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☒ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations

☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 10: Additional Instruction

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : _____

Date : _____

6/24/09

Printed Name / Title : Zac McKaughn / president

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Process Facility Information :

Compliance Officer : _____

\$125/tote

Date : _____

6-24-09

Status : _____

Approved

Rejected

Approval Number : _____



**CES Environmental
Services, Inc.**

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$125/tote

2. Contamination Limit (maximum limit before surcharges apply):

reject if material fails chlor-d-test or flash

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

--

3394

Cameron Compression Systems



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/24/2009

Dear Lee Pinson

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3394

Expiration Date 6/24/2011

Generator: Cameron Compression Systems

Address: 600 South First Street
Ponca City, OK 74604

Waste Information

Name of Waste: Oily Absorbent

TCEQ Waste Code #: OUTS3101

Container Type:

Detailed Description of Process Generating Waste:

Absorbent contaminated with oil from metals finishing and manufacturing.

Color: Varies **Odor:** Varies/hydrocarbon **pH:** 3-11

Physical State:

Incompatibilities: Strong oxidizers

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



4B/mm Houston
DS

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
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SECTION 1: Generator Information

Company: Cameron Compression Systems
Address: 600 South First Street
City: Ponca City State: OK Zip: 74604
Contact: Joelle Moman Title: Environmental Manager
Phone Number: 580-767-8101 Fax Number: 580-761-0521
24/hr Phone Number: 580-761-0699
US EPA ID No: _____
State ID No: D0022 SIC Code: _____

SECTION 2: Billing Information - ☐ Same as Above

Company: Sierra Chemical Corp
Address: 4524 Southlake Pkwy, Suite 34, PMB 101
City: Hoover State: AL Zip: 35244
Contact: M. Pinson Title: CFO
Phone Number: 205-982-7799 Fax Number: 205-982-0608

SECTION 3: General Description of the Waste

Name of Waste: Oily Absorbent
Detailed Description of Process Generating Waste: _____

Absorbent contaminated with oil from metals finishing and manufacturing

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination
Color: varies Odor: varies/hydrocarbon

Specific Gravity (water=1): 1-2 Density: 8.3-17 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☐ One-Time

Quantity: 5-15

EPAHO109000457

Is this a USEPA “Hazardous Waste” per 40CFR 261.3?

☐ Yes ☒ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one?

☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number:

OUTS-3101

Proper US DOT Shipping Name:

Non RCRA/Non DOT Regulated Material (Oily Pads & Absorbent)

Class: NA **UN/NA:**

NA PG : Na RQ: NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>140 deg F		3-11		NA <u>mg/l</u>		NA mg/l		<2 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
>1500	<u>mg/l</u>	<10,000	<u>mg/l</u>	NA	<u>mg/l</u>	NA	mg/l	NA	<u>mg/l</u>

SECTION 4: Physical and Chemical Data

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package.

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

Strong Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	x
TCLP Volatiles:	x
TCLP Semi-Volatiles:	x
Reactivity:	x
Corrosivity:	x
Ignitability:	x

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
- Cadmium: 0.2 mg/L
 - Chromium: 8.9 mg/L
 - Copper: 4.9 mg/L
 - Nickel: 37.5 mg/L
- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
- ☒ Metals Subcategory
 - ☐ Oils Subcategory
 - ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

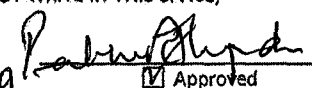
SECTION 11: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:  Date: 6/5/09

Printed Name/Title: Lee Pinson, Authorized Representative for Generator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: <u></u>	
Date: <u>6-24-09</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected
Approval Number: _____	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$ 35/drum + trans + fsc

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

- ① oily pads & filters Recycling
- ② class 1 Solids

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

--

3395

Industrial Degreasing Services



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Material / Product Approval Letter

Date 6/24/2009

Dear Bobby Lee

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3395

Expiration Date 6/24/2011

Producer: Industrial Degassing Services, LLC - IDS

Address: 2406 Market Street
Baytown, TX 77520

Material / Product Information

Name of Material / Product Unused hydrogen peroxide

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused hydrogen peroxide 35%

Color: Clear

Odor: None

pH: 3-4

Physical State:

Incompatibilities: Combustible materials; ORGANICS; ACIDS; see section 6 of MSDS; see section 10 of MSDS

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000464



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676

<http://www.cesenvironmental.com>

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

Product
4Bmm PAGES

SECTION 1: Generator Information

Company : Industrial Degassing Services, LLC - IDS
Address : 2406 Market Street 2406 Market Street
City, State, Zip : Baytown TX 77520
Contact : Bobby Lee Title :
Phone No : (281) 837-7431 Fax : (281) 837-7434
24 / HR Phone :
U.S EPA I.D No :
State I.D : SIC Code na

SECTION 2: Billing Information

Company : Industrial Degassing Services, LLC - IDS
Address : 2406 Market Street 2406 Market Street
City, State, Zip : Baytown TX 77520
Contact : Bobby Lee Title :
Phone No : (281) 837-7431 Fax : (281) 837-7434

SECTION 3: General Description of the Waste

Name of Waste : Unused hydrogen peroxide

Detailed Description of the Process Generating Waste:

Unused hydrogen peroxide 35%

Physical State : ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color : Clear Odor : none

Specific Gravity (Water=1) : 1.11 Density : 8-9 lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☐ No

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Layers : ☒ Single-Phas ☐ Multi-Phase

Container Type : ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size : 55

Number Of Units : 15

Is this a USEPA "Hazardous Waste" per 40 CFR 261.3? ☐ Yes ☐ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", is it: ☐ D001 ☐ D002 ☐ D003

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007
☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristics for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☐ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☐ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code No : Product

Proper U.S. State Waste Code No : Hydrogen peroxide, aqueous solutions with not less than 20% but not more than 40% hydrogen pe

Class : 5.1 (Oxidizer)

UN/NA : UN2014

PG : II

RQ : 100

Flash Point na	pH 3-4	Reactive Sulfides na mg/l	Reactive Cyanides na mg/l	Solids 0 %
Oil and Grease na mg/l	TOC na mg/l	Zinc na mg/l	Copper na mg/l	Nickel na mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The material / product consists of the following materials		Ranges are acceptable	or %
hydrogen peroxide		20-40	%
water		60-80	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

std PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

msds

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Combustible materials; 'ORGANICS; ACIDS'; see section 6 of MSDS; see section 10 of MSDS

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : ☒

TCLP Volatiles : ☒

TCLP Semi-Volatiles : ☒

Reactivity : ☒

Corrosivity : X

Ignitability : X

SECTION 9: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☐ YES ☒ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Metals Subcategory: *Subpart A*

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: *Subpart B*

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory *Subpart C*

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations

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CES Environmental Service

713 676 676 P.06

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☒ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☒ Organics Subcategory

SECTION 10: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Bobby LeeDate: 6/17/09Printed Name/Title: Bobby LEE (SALES)**CES USE ONLY (DO NOT WRITE IN THIS SPACE)**Compliance Officer: [Signature]Date: 6-24-09☐ Approved☐ Rejected

Approval Number: _____

TOTAL P.06

EPAHO109000468



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

trans only

2. Contamination Limit (maximum limit before surcharges apply):

Unused Product

3. Surcharge Pricing:

4. Special Testing Requirements:

Be sure it is unused / sealed / free of solids / conforms to profile

5. Treatment and Handling Protocol:

Use at PACES in production .

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

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MATERIAL SAFETY DATA SHEET

Hydrogen Peroxide (20 to 40%)



MSDS Ref. No.: 7722-84-1-3

Date Approved: 06/03/2008

Revision No.: 11

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Hydrogen Peroxide (20 to 40%)

ALTERNATE PRODUCT NAME(S): Durox® Reg. & LR 35%, Oxypure® 35%, Standard 27.5 & 35%, Super D® 25 & 35, Technical 35%, HTP 35%, OHP 35%, Chlorate Grade, 20%, Semiconductor Reg. Seg, RGS, RGS 2, RGS 3, 31%

GENERAL USE: Durox® 35% Reg. & LR - meets the Food Chemical Codex requirements for aseptic packaging and other food related applications.

Oxypure® 35% - certified by NSF to meet NSF/ANSI Standard 60 requirements for drinking water treatment.

Standard 27.5 and 35% - most suitable grade for industrial bleaching, processing, pollution abatement and general oxidation reactions.

Semiconductor Reg. Seg, RGS, RGS 2, RGS 3, 31% - conform to ACS and Semi Specs. for wafer etching and cleaning, and applications requiring low residues.

Super D® 25 and 35% - meets US Pharmacopoeia specifications for 3% topical solutions when diluted with proper quality water. While manufactured to the USP standards for purity and to FMC's demanding ISO 9002 quality standards, FMC does not claim that it's Hydrogen Peroxide is manufactured in accordance with all pharmaceutical cGMP conditions.

Technical 35% - essentially free of inorganic metals suitable for chemical synthesis.

HTP 35% - specially formulated for aerospace equipment conditioning.

OHP 35% - specially formulated for OHP process, advanced oxidation, and activated peroxide applications

Chlorate Grade 20% - specially formulated for use in chlorate manufacture or processing.

MANUFACTURER

FMC CORPORATION
FMC Peroxygens
1735 Market Street
Philadelphia, PA 19103
(215) 299-6000 (General Information)
msdsinfo@fmc.com (Email - General Information)

FMC of Canada Ltd.
FMC Peroxygens
PG Pulp Mill Road
Prince George, BC V2N2S6
(250) 561-4200 (General Information)

EMERGENCY TELEPHONE NUMBERS

(281) 474-8750 (Plant: Pasadena, TX, US - Call Collect)
(250) 561-4221 (Plant: Prince George, BC, Canada - Call Collect)
(303) 595-9048 (Medical - U.S. - Call Collect)

For leak, fire, spill, or accident emergencies, call:
(800) 424-9300 (CHEMTREC - U.S.A.)
(613) 996-6666 (CANUTEC - Canada)

2. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW:**

- Clear, colorless, odorless liquid
- Oxidizer.
- Contact with combustibles may cause fire.
- Decomposes yielding oxygen that supports combustion of organic matters and can cause overpressure if confined.
- Corrosive to eyes, nose, throat, lungs and gastrointestinal tract.

POTENTIAL HEALTH EFFECTS: Corrosive to eyes, nose, throat and lungs. May cause irreversible tissue damage to the eyes including blindness. May cause skin irritation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Wt.%	EC No.	EC Class
Hydrogen Peroxide	7722-84-1	20 - 40	231-765-0	O, C, Xn; R5- R8-R35-R20/22
Water	7732-18-5	60 - 80	231-791-2	Not classified

4. FIRST AID MEASURES

EYES: Immediately flush with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist immediately.

SKIN: Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

INGESTION: Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. See a medical doctor immediately.

INHALATION: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, contact a medical doctor.

NOTES TO MEDICAL DOCTOR: Hydrogen peroxide at these concentrations is a strong oxidant. Direct contact with the eye is likely to cause corneal damage especially if not washed immediately. Careful ophthalmologic evaluation is recommended and the possibility of local corticosteroid therapy should be considered. Because of the likelihood of corrosive effects on the gastrointestinal tract after ingestion, and the unlikelihood of systemic effects, attempts at evacuating the stomach via emesis induction or gastric lavage should be avoided. There is a remote possibility, however, that a nasogastric or orogastric tube may be required for the reduction of severe distension due to gas formation.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Flood with water.

FIRE / EXPLOSION HAZARDS: Product is non-combustible. On decomposition releases oxygen which may intensify fire.

FIRE FIGHTING PROCEDURES: Any tank or container surrounded by fire should be flooded with water for cooling. Wear full protective clothing and self-contained breathing apparatus.

FLAMMABLE LIMITS: Non-combustible

SENSITIVITY TO IMPACT: No data available

SENSITIVITY TO STATIC DISCHARGE: No data available

6. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: Dilute with a large volume of water and hold in a pond or diked area until hydrogen peroxide decomposes. Hydrogen peroxide may be decomposed by adding sodium metabisulfite or sodium sulfite after diluting to about 5%. Dispose according to methods outlined for waste disposal.

Combustible materials exposed to hydrogen peroxide should be immediately submerged in or rinsed with large amounts of water to ensure that all hydrogen peroxide is removed. Residual hydrogen peroxide that is allowed to dry (upon evaporation hydrogen peroxide can concentrate) on organic materials such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in a fire.

7. HANDLING AND STORAGE

HANDLING: Wear chemical splash-type monogoggles and full-face shield, impervious clothing, such as rubber, PVC, etc., and rubber or neoprene gloves and shoes. Avoid cotton, wool and leather. Avoid excessive heat and contamination. Contamination may cause decomposition and generation of oxygen gas which could result in high pressures and possible container rupture. Hydrogen peroxide should be stored only in vented containers and transferred only in a prescribed manner (see FMC Technical Bulletins). Never return unused hydrogen peroxide to original container, empty drums should be triple rinsed with water before discarding. Utensils used for handling hydrogen peroxide should only be made of glass, stainless steel, aluminum or plastic.

STORAGE: Store drums in cool areas out of direct sunlight and away from combustibles. For bulk storage refer to FMC Technical Bulletins.

COMMENTS: VENTILATION: Provide mechanical general and/or local exhaust ventilation to prevent release of vapor or mist into the work environment.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Chemical Name	ACGIH	OSHA	Supplier
Hydrogen Peroxide	1 ppm (TWA)	1 ppm (PEL) 1.4 mg/m ³ (PEL)	

ENGINEERING CONTROLS: Ventilation should be provided to minimize the release of hydrogen peroxide vapors and mists into the work environment. Spills should be minimized or confined immediately to prevent release into the work area. Remove contaminated clothing immediately and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use chemical splash-type monogoggles and a full-face shield made of polycarbonate, acetate, polycarbonate/acetate, PETG or thermoplastic.

RESPIRATORY: If concentrations in excess of 10 ppm are expected, use NIOSH/DHHS approved self-contained breathing apparatus (SCBA), or other approved atmospheric-supplied respirator (ASR) equipment (e.g., a full-face airline respirator (ALR)). DO NOT use any form of air-purifying respirator (APR) or filtering facepiece (AKA dust mask), especially those containing oxidizable sorbants such as activated carbon.

PROTECTIVE CLOTHING: For body protection wear impervious clothing such as an approved splash protective suit made of SBR Rubber, PVC (PVC Outershell w/Polyester Substrate), Gore-Tex (Polyester trilaminate w/Gore-Tex), or a specialized HAZMAT Splash or Protective Suite (Level A, B, or C). For foot protection, wear approved boots made of NBR, PVC, Polyurethane, or neoprene. Overboots made of Latex or PVC, as well as firefighter boots or specialized HAZMAT boots are also permitted. DO NOT wear any form of boot or overboots made of nylon or nylon blends. DO NOT use cotton, wool or leather, as these materials react RAPIDLY with higher concentrations of hydrogen peroxide. Completely submerge hydrogen peroxide contaminated clothing or other materials in water prior to drying. Residual hydrogen peroxide, if allowed to dry on materials such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in a fire.

GLOVES: For hand protection, wear approved gloves made of nitrile, PVC, or neoprene. DO NOT use cotton, wool or leather for these materials react RAPIDLY with higher concentrations of hydrogen peroxide. Thoroughly rinse the outside of gloves with water prior to removal. Inspect regularly for leaks.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR:	Odorless
APPEARANCE:	Clear, colorless liquid
AUTOIGNITION TEMPERATURE:	Non-combustible
BOILING POINT:	103°C/218°F (20%); 107°C/225°F (31%); 108°C/226°F (35%)
COEFFICIENT OF OIL / WATER:	Not available
DENSITY / WEIGHT PER VOLUME:	Not available
EVAPORATION RATE:	> 1 (Butyl Acetate = 1)
FLASH POINT:	Non-combustible
FREEZING POINT:	-15°C/6°F (20%); -26°C/-15°F (31%); -33°C/-27°F (35%)
ODOR THRESHOLD:	Not available
OXIDIZING PROPERTIES:	Strong oxidizer
PERCENT VOLATILE:	100
pH:	<= 3.7 5.0 - 6.0 @ 25 °C (1% solution)
SOLUBILITY IN WATER:	100 %
SPECIFIC GRAVITY:	1.07 @ 20°C/4°C (20%); 1.11 @ 20°C/4°C (31%); 1.13 @ 20°C/4°C (35%)
VAPOR DENSITY:	(Air = 1): Not available
VAPOR PRESSURE:	28 mmHg @ 30°C (20%); 24 mmHg @ 30°C (31%); 23 mmHg @ 30°C (35%)

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:	Excessive heat or contamination could cause product to become unstable.
STABILITY:	Stable (heat and contamination could cause decomposition)
POLYMERIZATION:	Will not occur
INCOMPATIBLE MATERIALS:	Reducing agents, wood, paper and other combustibles, iron and other heavy metals, copper alloys and caustic.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxygen which supports combustion.
COMMENTS:	Materials to Avoid : Dirt, organics, cyanides and combustibles such as wood, paper, oils, etc.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: 35% hydrogen peroxide: Extremely irritating/corrosive (rabbit) [FMC Study Number: 183-748]

SKIN EFFECTS: 35% hydrogen peroxide: Mildly irritating after 4-hour exposure (rabbit) [FMC Study Number: 183-747]

DERMAL LD₅₀: 35% hydrogen peroxide: > 2,000 mg/kg (rabbit) [FMC Study Number: 183-746]

ORAL LD₅₀: 35% hydrogen peroxide: 1,193 mg/kg (rat) [FMC Study Number: 183-745]

INHALATION LC₅₀: 50% hydrogen peroxide: > 0.17 mg/l (rat) [FMC Study Number: 189-1080]

TARGET ORGANS: Eyes, nose, throat and lungs

ACUTE EFFECTS FROM OVEREXPOSURE: Extremely irritating/corrosive to eyes and gastrointestinal tract. May cause irreversible tissue damage to the eyes including blindness. Inhalation of mist or vapors may be severely irritating to nose, throat and lungs. May cause skin irritation.

CHRONIC EFFECTS FROM OVEREXPOSURE: The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of hydrogen peroxide in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity to humans). The American Conference of Governmental Industrial Hygienists (ACGIH) has concluded that hydrogen peroxide is a 'Confirmed Animal Carcinogen with Unknown Relevance to Humans' (A3).

CARCINOGENICITY:

Chemical Name	IARC	NTP	OSHA	Other
Hydrogen Peroxide	Not listed	Not listed	Not listed	(ACGIH) Listed (A3, Animal Carcinogen)

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Channel catfish 96-hour LC_{50} = 37.4 mg/L

Fathead minnow 96-hour LC_{50} = 16.4 mg/L

Daphnia magna 24-hour EC_{50} = 7.7 mg/L

Daphnia pulex 48-hour LC_{50} = 2.4 mg/L

Freshwater snail 96-hour LC_{50} = 17.7 mg/L

For more information refer to ECETOC "Joint Assessment of Commodity Chemicals No. 22, Hydrogen Peroxide." ISSN-0773-6339, January 1993

CHEMICAL FATE INFORMATION: Hydrogen peroxide in the aquatic environment is subject to various reduction or oxidation processes and decomposes into water and oxygen. Hydrogen peroxide half-life in freshwater ranged from 8 hours to 20 days, in air from 10-20 hrs. and in soils from minutes to hours depending upon microbiological activity and metal contaminants.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: An acceptable method of disposal is to dilute with a large amount of water and allow the hydrogen peroxide to decompose followed by discharge into a suitable treatment system in accordance with all regulatory agencies. The appropriate regulatory agencies should be contacted prior to disposal.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

PROPER SHIPPING NAME:	Hydrogen peroxide, aqueous solutions with not less than 20% but not more than 40% hydrogen peroxide
PRIMARY HAZARD CLASS / DIVISION:	5.1 (Oxidizer)
UN/NA NUMBER:	UN 2014
PACKING GROUP:	II
LABEL(S):	Oxidizer, Corrosive
PLACARD(S):	5.1 (Oxidizer)

ADDITIONAL INFORMATION:

DOT Marking: Hydrogen Peroxide, aqueous solution with not less than 20%, but not more than 40% Hydrogen Peroxide, UN 2014

Hazardous Substance/RQ: Not applicable

49 STCC Number: 4918775

DOT Spec: stainless steel/high purity aluminum cargo tanks and rail cars. UN Spec: HDPE drums. Contact FMC for specific details.

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)

PROPER SHIPPING NAME:

Hydrogen peroxide, aqueous solutions with not less than 20%, but not more than 60% hydrogen peroxide.

**INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO) /
INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)**

PROPER SHIPPING NAME:

Hydrogen peroxide, aqueous solutions with not less than 20%, but not more than 40% hydrogen peroxide (*).

OTHER INFORMATION:

(*) Air regulations permit shipment of Hydrogen Peroxide (20 - 40%) in non-vented containers for Air Cargo Only aircraft, as well as for Passenger and Cargo aircraft. HOWEVER, all FMC Hydrogen Peroxide containers are vented and therefore, air shipments of FMC H₂O₂ is not permitted. IATA air regulations state that venting of packages containing oxidizing substances is not permitted for air transport.

Protect from physical damage. Keep drums in upright position. Drums should not be stacked in transit. Do not store drum on wooden pallets.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):

Not listed

SECTION 311 HAZARD CATEGORIES (40 CFR 370):

Fire Hazard, Immediate (Acute) Health Hazard

SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370):

The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs; however, this product contains the following ingredients with a TPQ of less than 10,000 lbs.:
None, (conc. <52%)

SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):

Not listed

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)

CERCLA DESIGNATION & REPORTABLE QUANTITIES (RQ) (40 CFR 302.4):

Unlisted (Hydrogen Peroxide 20-40%); RQ = 100 lbs.; Ignitability, Corrosivity

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA INVENTORY STATUS (40 CFR 710):

Listed

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA)

RCRA IDENTIFICATION OF HAZARDOUS WASTE (40 CFR 261):

Waste Number: D001, D002

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Hazard Classification / Division: C
E
D2B

Product Identification Number: 2014
Ingredient Disclosure List: Listed
Domestic Substance List: All components listed

INTERNATIONAL LISTINGS

Hydrogen peroxide:

China: Listed
Japan (ENCS): (1)-419
Korea: KE-20204
Philippines (PICCS): Listed

HAZARD AND RISK PHRASE DESCRIPTIONS:

EC Symbols: O (Oxidizer)

C (Corrosive)
Xn (Harmful)

EC Risk Phrases:

R5 (Heating may cause an explosion.)
R8 (Contact with combustible material may cause fire)
R35 (Causes severe burns.)
R20/22 (Harmful by inhalation and if swallowed.)

16. OTHER INFORMATION

HMIS

Health	3
Flammability	0
Physical Hazard	1
Personal Protection (PPE)	H

Protection = H (Safety goggles, gloves, apron, the use of a supplied air or SCBA respirator is required in lieu of a vapor cartridge respirator)

HMIS = Hazardous Materials Identification System

Degree of Hazard Code:

4 = Severe
3 = Serious
2 = Moderate
1 = Slight
0 = Minimal

NFPA

Health	3
Flammability	0
Reactivity	1
Special	OX

SPECIAL = OX (Oxidizer)

NFPA (National Fire Protection Association)

Degree of Hazard Code:

4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant

REVISION SUMMARY:

This MSDS replaces Revision #10, dated April 27, 2006.

Changes in information are as follows:

Section 1 (Product and Company Identification)

Section 3 (Composition / Information on Ingredients)

Section 15 (Regulatory Information)

Section 16 (Other Information)

Durox, Oxypure, Super D and FMC Logo - FMC Trademarks

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3397

Hydrocarbons Engg Processing



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/24/2009

Dear **Ralph Jenkins**

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3397

Expiration Date 6/23/2011

Generator: Hydrocarbons Engineering Processing Inc.

Address: 12 Lindo Lane
Natchez, MS 39122

Waste Information

Name of Waste: Oily water w/ aromatics

TCEQ Waste Code #: OUTS205H

Container Type:

Detailed Description of Process Generating Waste:

material generated from equipment oil changes & cleanings

Color: light brown

Odor: hydrocarbon

pH: 5-9

Physical State:

Incompatibilities:

Safety Related Data/Special Handling:

FLAMMABLE PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000483



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

3397
50
JR

Hazardous
Houston

SECTION 1: Generator Information

Company : Hydrocarbons Engineering Processing Inc.
Address : 12 Lindo Lane P.O. Box 18722
City, State, Zip : Natchez MS 39122
Contact : Ralph Jenkins Title :
Phone No : (601) 445-0087 Fax : (601) 445-0819
24 / HR Phone :
U.S EPA I.D No : MSR000101097
State I.D : D0028 SIC Code

SECTION 2: Billing Information

Company : Hydrocarbons Engineering Processing Inc.
Address : 12 Lindo Lane P.O. Box 18722
City, State, Zip : Natchez MS 39122
Contact : Ralph Jenkins Title :
Phone No : (601) 445-0087 Fax : (601) 445-0819

SECTION 3: General Description of the Waste

Name of Waste : Oily water w/ aromatics

Detailed Description of the Process Generating Waste:

material generated from equipment oil changes & cleanings

Physical State : ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color : light brown Odor : hydrocarbon
Specific Gravity (Water=1) : .95-1 Density : 8 lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHA? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Layers : ☐ Single-Phas ☒ Multi-Phase

Container Type : ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Container Size : 5000

Number Of Units : 1

Is this a USEPA "Hazardous Waste" per 40 CFR 261.3? ☒ Yes ☐ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", is it: ☒ D001 ☐ D002 ☐ D003

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007
☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristics for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code No : PENDING

OUTS 205H

Proper U.S. State Waste Code No: RQ, UN1993, Flammable Liquids, N.O.S. (aromatic), 3, II

Class : 3 UN/NA : UN1993 PG : II RQ : 100

Flash Point <100	pH 5-9	Reactive Sulfides BRL mg/l	Reactive Cyanides BRL mg/l	Solids <5 %
Oil and Grease >1500 mg/l	TOC >1500 mg/l	Zinc BRL mg/l	Copper BRL mg/l	Nickel BRL mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The material / product consists of the following materials		Ranges are acceptable	or %
USED OIL		40-85	%
AROMATICS		5-20	%
WATER		10-40	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

FLAMMABLE PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : BRL

TCLP Volatiles : BRL

TCLP Semi-Volatiles : BRL

Reactivity : NON

Corrosivity : NON
Ignitability : <100F

SECTION 9: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☒ YES ☐ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☒ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations

☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 10: Additional Instruction

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : _____

Date : 6/23/2009

Printed Name / Title : RALPH JENKINS /



CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Process Facility Information :

Compliance Officer : _____



Date : 6-24-09

Status : ☒ Approved

☐ Rejected

Approval Number : _____

HOU-3397

1. Generator Information Name: HYDROCARBON ENGINEERING PROCESSING, INC. Address: P.O. BOX 18722 NATCHEZ, MS 39122 EPA ID No.: Manifest No.:	2. Receiving Facility Information Name: CES Environmental Services, Inc. Address: 4904 Griggs Road Houston, TX 77021 EPA ID No.: TXD008950461
---	--

3. Waste Description at Point of Generation					
Line Item	Waste Description	Hazardous Waste Codes	LDR Subcategory	WW / NWW	Underlying Hazardous Constituents [268.2(i)]
1	OILY WATER W/ AROMATICS	D001	E	WW	NONE
2					
3					
4					
5					

4. Waste Disposition				
Line Item	Subtitle C Exclusion Subsequent to Point of Generation (if applicable)	Current Disposition of Waste	268.45, Table 1 Technology used to treat debris (if applicable)	Date Shipped
1				
2				
3				
4				
5				

5. Was the waste hazardous at the point of generation but subsequently became excluded from the definition of hazardous waste or exempt from Subtitle C regulation (including characteristic wastes managed in wastewater treatment systems discharging under the CWA)?
☐ Yes ☒ No (If yes, this constitutes the 268.7(a)(7) one-time notification.)

6. Was the waste characteristic at the point of generation, treated onsite to remove the characteristic, and treatment residues then shipped to a Subtitle D land disposal facility? ☐ Yes ☒ No (if yes, complete Certification 1 or 2.)

7. Was the waste "debris" that was hazardous at the point of generation but subsequently became excluded from the definition of hazardous waste under 261.3(f)(1) by treating it using an extraction or destruction technology in 268.45, Table 1? ☐ Yes ☒ No (if yes, complete Certification 3.)

8. Was the waste "debris" that was hazardous at the point of generation but subsequently became excluded from the definition of hazardous waste under 261.3(f)(2) by receiving a "no-longer-contains" determination from EPA or the authorized state? ☐ Yes ☒ No (if yes, this constitutes the 268.7(d)(1) one-time notification.)

9. Is the waste residue from treating K061, K062 and/or F006 wastes in high-temperature metals recovery (HTMR) units that 1) meets the generic exclusion levels in 261.3(c)(2)(ii)(C), 2) does not exhibit any characteristics, and 3) is shipped to a Subtitle D land disposal facility? ☐ Yes ☒ No (if yes, complete Certification 4.)

10. <input type="checkbox"/> Waste that has been treated to remove a characteristic and meets underlying hazardous constituents standards. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristics and that underlying hazardous constituents, as defined in 268.2(i) have been treated on-site to meet the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.	Applies to items: Reference: 268.7(b)(4)(v) and 268.9(d)
--	--

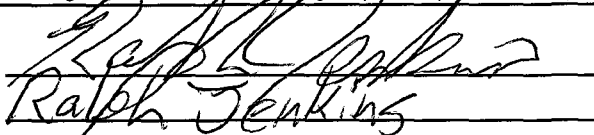
11. <input type="checkbox"/> Waste that has been treated to remove a characteristic but does not meet underlying hazardous constituents standards. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.	Applies to items: Reference: 268.7(b)(4)(v) and 268.9(d)
---	--

12. <input type="checkbox"/> Debris that has been treated to meet the alternative treatment standards. I certify under penalty of law that the debris has been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.	Applies to items: Reference: 268.7(b)(4)(v) and 268.9(d)
---	--

13. <input type="checkbox"/> HTMR residue from treating K061, K062 and/or F006 wastes. I certify under penalty of law that the generic exclusion levels for all constituents have been met without impermissible dilution and that no characteristic of hazardous waste is exhibited. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.	Applies to items: Reference: 268.7(b)(4)(v) and 268.9(d)
--	--

Authorized Signature:

Printed Name / Title:


 Ralph Jenkins

Date:

6/23/09



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$.45/gallon

2. Contamination Limit (maximum limit before surcharges apply):

TOC < 100,000
Phenol < 50 ppm
Solids < 10%

3. Surcharge Pricing:

standard per rate sheet (call Joe Camp before offloading to approve all surcharges)

4. Special Testing Requirements:

TOC, phenol, solids, metals, flash point (should be low)

5. Treatment and Handling Protocol:

heat to break emulsion and remove low flash point, recover organics, send water to w/w treatment

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☒ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

chlor-d-test on oil phase

8. Management for Product Recovered/Recycled (if applicable)

black oil market

3403

SAIA c/o Premium Environmental



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/25/2009

Dear James Wilson

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3403

Expiration Date 6/25/2011

Generator: SAIA c/o Premium Environmental

Address: 29707 W. Hawthorne
Spring, TX 77386

Waste Information

Name of Waste: Soil contaminated with Rhoplex EI-2000 Emulsion

TCEQ Waste Code #: CESQ3191

Container Type:

Detailed Description of Process Generating Waste:

Leaking damaged drum from a shifted load

Color: Brown

Odor: Ammonia

pH: 7-8

Physical State:

Incompatibilities:

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

DB/MM

15
Houston

SECTION 1: Generator Information

Company: SALA C/O Premium Environmental
Address: 29707 W Hawthorne
City, State, Zip: Spring, Texas 77386
Contact: Kimberly White Title: Agent
Phone No: 281-367-3515 Fax No: 281-419-4492
24/hr Phone: 800-838-9707
U.S. EPA ID. No: N/A
State I.D. N/A SIC Code:

SECTION 2: Billing Information - ☐ Same as Above

Company: Milstead Environmental, LLC
Address: 29707 W Hawthorne
City, State, Zip: Spring, Texas 77386
Contact: Kimberly White Title: Waste Disposal Coordinator
Phone No: 281-367-3515 Fax No: 281-419-4492

SECTION 3: General Description of the Waste

Name of Waste: Soil contaminated with Rhoplex™ EI-2000 Emulsion
Detailed Description of Process Generating Waste: Leaking Damaged drum from a shifted load

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: Brown Odor: Ammonia

Specific Gravity (water=1): >1 Density: 8-10 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 95 gal

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 95 Other:

Texas State Waste Code No:

Proper U.S. DOT Shipping Name:

CES 23191

Non DOT regulated waste. Soil contaminated with Rhoplex™ EI-2000 Emulsion

Class: N/a UN/NA: N/a PG: N/a RQ: N/a

Flash Point >200	pH 7-8	Reactive Sulfides 0mg/l	Reactive Cyanides 0mg/l	Solids 100%
Oil & Grease 0mg/l	TOC 0mg/l	Zinc 0mg/l	Copper 0mg/l	Nickel 0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The waste consists of the following materials		Ranges are acceptable	or %
Soil		90-100	%
Rhoplex™ EI-2000 Emulsion		1-5	%
debris; RCRA empty fiber drum		1-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE:

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ☒
TCLP Volatiles: ☒
TCLP Semi-Volatiles: ☒
Reactivity: ☒
Corrosivity: ☒
Ignitability: ☒

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Kimberly White

Date: 6/24/09

Printed Name/Title: Kimberly White, Agent for SAVA % Premium Environmental

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: <u>Robert Ryan</u>	
Date: <u>6-25-09</u>	
Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	
Approval Number: _____	



CES Environmental
Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$55/dm

2. Contamination Limit (maximum limit before surcharges apply):

Call Dan if non confirming

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Class 1 solids landfill

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

--

1. PRODUCT AND COMPANY IDENTIFICATION

RHOPLEX (TM) EI-2000 Emulsion

Revision date:03/07/2006

SupplierRohm and Haas Company
100 Independence Mall West
Philadelphia, PA 19106-2399 United States of America

For non-emergency information contact: 215-592-3000
Emergency telephone number
Spill Emergency215-592-3000
Health Emergency215-592-3000
Chemtrec800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS
ComponentCAS-No.Concentration

Acrylic polymer(s)Not Hazardous46.0 - 47.0%

Residual monomersNot Required< 500.0PPM

Aqua ammonia1336-21-6<= 0.2%

water7732-18-553.0 - 54.0%

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance

Formliquid
Colourwhite
Colourmilky
Odourammonia

Hazard SummaryCaution!

Inhalation of vapor or mist can cause headache, nausea and irritation of the nose, throat and lungs.
May cause eye/skin irritation.

Potential Health Effects

Primary Routes of Entry: Inhalation
Eye contact
Skin contact

Eyes:Direct contact with material can cause the following:
slight irritation

Skin:Prolonged or repeated skin contact can cause the following:

slight irritation

Inhalation: Inhalation of vapor or mist can cause the following:

irritation of nose, throat, and lungs

headache

nausea

4. FIRST AID MEASURES

Inhalation: Move to fresh air.

Skin contact: Wash with water and soap as a precaution. If skin irritation persists, call a physician.

Eye contact: Rinse with plenty of water. If eye irritation persists, consult a specialist.

Ingestion: Drink 1 or 2 glasses of water. Consult a physician if necessary.

Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flash point: Noncombustible

Lower explosion limit: not applicable

Upper explosion limit: not applicable

Thermal decomposition: Thermal decomposition may yield acrylic monomers.

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Specific hazards during fire fighting: Material can splatter above 100C/212F.

Dried product can burn.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment.

Keep people away from and upwind of spill/leak.

Material can create slippery conditions.

Environmental precautions

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Methods for cleaning up

Contain spills immediately with inert materials (e.g., sand, earth).

Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

7. Handling and storage

Handling

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Keep container tightly closed. Do not breathe vapors, mist or gas.

Further information on storage conditions: Keep from freezing - product stability may be affected. STIR WELL BEFORE USE.

Storage

Storage temperature: 1 - 49 °C (34 - 120 °F)

Other data: Monomer vapors can be evolved when material is heated during processing operations. See SECTION 8, for types of ventilation required.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)

Exposure limits are listed below, if they exist.

Eye protection: safety glasses with side-shields. Eye protection worn must be compatible with respiratory protection system employed.

Hand protection: The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): Neoprene gloves

Respiratory protection: A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit

Information. For airborne concentrations up to 10 times the exposure limit, wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) ammonia/methylamine cartridges and N95 filters. If oil mist is present, use R95 or P95 filters.

Protective measures: Facilities storing or utilizing this material should be equipped with an eyewash facility.

Engineering measures: Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form liquid

Colour white

milky

Odour ammonia

pH 9.0 - 10.0

Boiling point/range 100 °C (212.00 °F) Water

Melting point/range 0.00 °C (32.00 °F) Water

Flash point Noncombustible

Lower explosion limit not applicable

Upper explosion limit not applicable

Vapour pressure 17.0 mmHg at 20 °C (68.00 °F) Water

Relative vapour density <1.0 Water

Water solubility Dilutable

Relative density 1.00 - 1.20

Viscosity, dynamic 500.000 mPa.s maximum

Evaporation rate <1.00 Water

Percent volatility 53 - 54 % Water

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Hazardous reactions None known.

Stable

Materials to avoid There are no known materials which are incompatible with this product.

polymerization Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

No data are available for this material. The information shown is based on profiles of compositionally similar materials.

Acute oral toxicity LD50 rat > 5,000 mg/kg

Acute dermal toxicity LD50 rabbit > 5,000 mg/kg

Skin irritation rabbit May cause transient irritation.

Eye irritation rabbit No eye irritation

12. ECOLOGICAL INFORMATION

There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Environmental precautions: CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Disposal

Waste Classification: When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. For disposal, incinerate or landfill at a permitted facility in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT

Not regulated for transport

IMO/IMDG

Not regulated (Not dangerous for transport)

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations

15. REGULATORY INFORMATION

Workplace Classification

This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200).

This product is not a 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS).

SARA Title III: Section 311/312 Categorizations (40CFR370): This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

SARA Title III: Section 313 Information (40CFR372)

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

CERCLA Information (40CFR302.4)

Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

US. Toxic Substances Control Act (TSCA) All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Pennsylvania

Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

16. OTHER INFORMATION

Hazard Rating

Health Fire Reactivity

HMIS 100

Legend

ACGIH American Conference of Governmental Industrial Hygienists

BAC Butyl acetate

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

STEL Short Term Exposure Limit (STEL):

TLV Threshold Limit Value

TWA Time Weighted Average (TWA):

| Bar denotes a revision from prior MSDS.

MSDS.txt

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Version: 1 . 5

Print Date:03/09/2006

Layout 209676

3404

K.P. Murphy



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/26/2009

Dear James Wilson

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3404

Expiration Date 6/26/2011

Generator: K.P. Murphy (TX Railroad Commission of Texas c/o milstead En
Address:

Quitman, TX 77386

Waste Information

Name of Waste: Lead Contaminated Soil

TCEQ Waste Code #: CESQ4191

Container Type: cy box

Detailed Description of Process Generating Waste:

abandoned area- area under a lead contaminated drum

Color: brown

Odor: none

pH: 7.6

Physical State:

Incompatibilities: none

Safety Related Data/Special Handling:

gloves

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DB/MM

15 Houston



<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: K.P. Murphy (Texas Railroad Commission of Texas agent Milstead Environmental)
 Address: Quitman Texas
 City: _____ State: Texas Zip: _____
 Contact: James Wilson Title: _____
 Phone Number: 281 367-3535 Fax Number: 281 419-4492
 24/hr Phone Number: 1 800 838-9707
 US EPA ID No: n/a
 State ID No: n/a SIC Code: _____

SECTION 2: Billing Information - ☐ Same as Above

Company: Milstead Environmental
 Address: 29707 West Hawthorne
 City: Spring State: tx Zip: 77386
 Contact: James Wilson Title: _____
 Phone Number: 281 367-3535 Fax Number: 281 419 4492

SECTION 3: General Description of the Waste

Name of Waste: Lead contaminated soil. TCLP < 5 PPM
 Detailed Description of Process Generating Waste:

Unknown abated - Area under lead contaminated drum

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: brown Odor: NONE

Specific Gravity (water=1): 2.1 Density: 8x lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☐ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☒ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☒ One-Time

Quantity: 3/4 of a yard

☐ Yes ☒ No

If "Yes", Is it:

☐ D001 (Ignitable)☐ D002 (Corrosive)☐ D003 (Reactive)

☐ D004

☐ D005

☐ D006

☐ D007

☐ D008

☐ D009

☐ D010☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number:

CESQ 4191

Proper US DOT Shipping Name:

Class: NA UN/NA:

A Class I lead contaminated Soil

NA

PG :

NA

RQ:

NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
> 200		7.6		NA mg/l		NA mg/l		/o o %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
NA	mg/l	0	mg/l	0	mg/l	0	mg/l	0	mg/l

SECTION 4: Physical and Chemical Data

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Gloves

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package.

Alamo Analytical labs reports

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals: TCLP LEAD

TCLP Volatiles: N/A

TCLP Semi-Volatiles: N/A

Reactivity: N/A

Corrosivity: N/A

Ignitability: N/A

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES

☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☒ Used petroleum products
- ☒ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☒ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: _____

6/24/2009

Printed Name/Title: _____

James W ilson

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: _____

6-26-09

☒ Approved

☐ Rejected

Approval Number: _____



CES Environmental
Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$90/cy

2. Contamination Limit (maximum limit before surcharges apply):

Lead > 5 PPM

3. Surcharge Pricing:

None

4. Special Testing Requirements:

None - Analysis Attached to Profile

5. Treatment and Handling Protocol:

Class 1 Box to landfill

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

--

**ALAMO ANALYTICAL LABORATORIES, LTD.**

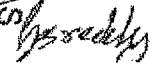
10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

Date: 14-Aug-08

CLIENT: RRC District 5 & 6
Lab Order: 0808042

Project: J.D.Grey- (06-54008)

Alamo Lab ID	Client ID	Matrix	Analyses	Collection Date	Result	Rpt Limit	Units	DF
TestName: LEAD, TCLP		TestNo: SW1311/6010B		Date Analyzed	12-Aug-08	Initials: JOL		
0808042-01A	A-Under the DRUM	Solid	Lead	08/06/2008	< 0.05	0.05	mg/L	1
TestName: LEAD, Total		TestNo: SW6010B		Date Analyzed	11-Aug-08	Initials: JOL		
0808042-02A	B-1 Under the DRUM	Solid	Lead	08/06/2008	6.57	1.5	mg/Kg	1
0808042-03A	B-2 3' West	Solid	Lead	08/06/2008	11.9	1.5	mg/Kg	1
0808042-04A	B-3 3' North	Solid	Lead	08/06/2008	8.72	1.5	mg/Kg	1
0808042-05A	B-4 3' South	Solid	Lead	08/06/2008	11.1	1.5	mg/Kg	1
0808042-06A	B-5 3' East	Solid	Lead	08/06/2008	9.8	1.5	mg/Kg	1

RECEIVED
R.R.C. OF TEXAS
AUG 25 2008
OIL & GAS DIVISION
KILGORE, TEXASApproved by: 

Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

NELAP Certificate# T104704367-08-TX

EPAHQ1090000510

**ALAMO ANALYTICAL LABORATORIES, LTD.**

Date: 14-Aug-08

10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121

CLIENT: RRC District 5 & 6

Work Order: 0808042

Project: J.D.Grey- (06-54008)

QC SUMMARY REPORT

Analyte	BLK	SPK value	LCS	LCSD	RPD %	RPD Limit	MS	MSD	%	RPD Limit	Low - High Limit
Batch ID: 1311_PB-8/12/2008	TestName: LEAD, TCLP										
Run ID: ICP_080812G	Test Code: SW1311/6010B Units: mg/L Analysis Date: 08/12/2008 4:00:00 PM Prep Date: 08/08/2008										
Lead	<0.05	1	97.0%	102.0%	5.0	20.0					75 - 125
Batch ID: PB_R_S-8/11/2008	TestName: LEAD, Total										
Run ID: ICP_080811A	Test Code: SW6010B Units: mg/Kg Analysis Date: 08/11/2008 11:00:00 AM Prep Date: 08/08/2008										
Lead	<1.5	50	96.2%	99.0%	3.0	25.0	76.2%	80.0%	4.0	25.0	80 - 120

RECEIVED
R.R.C. OF TEXAS
AUG 25 2008
OIL & GAS DIVISION
KILGORE, TEXAS

EPAHQ109000511

3405

Ethyl Corporation



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Material / Product Approval Letter

Date 6/29/2009

Dear Billy LeBlanc

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3405

Expiration Date 6/29/2011

Producer: Ethyl Corporation
Address: 1000 N. South Street
Pasadena, TX 77501

Material / Product Information

Name of Material / Product Spent A150 Solvent

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Plant Activities

Color: yellowish brown **Odor:** solvent mineral spirit **pH:** N/A

Physical State:

Incompatibilities: OXIDIZERS

Safety Related Data/Special Handling:

LEVEL C

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000513



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
<http://www.cesenvironmental.com>

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

*Product
Houston
3405*

SECTION 1: Material Producer Information

Company : Ethyl Corporation
Address : 1000 N. South Street P. O. Box 472
City, State, Zip : Pasadena TX 77501
Contact : Billy LeBlanc Title :
Phone No : (713) 740-8332 Fax : 713-740-8364
24 / HR Phone :
U.S EPA I.D No : TXD008096158
State I.D : 30465 SIC Code

SECTION 2: Billing Information

Company : Ethyl Corporation
Address : 1000 N. South Street P. O. Box 472
City, State, Zip : Pasadena TX 77501
Contact : Billy LeBlanc Title :
Phone No : (713) 740-8332 Fax : 713-740-8364

SECTION 3: General Description of the Material / Product

Name of Material / Product : Spent A150 Solvent

Detailed Description of the Process Generating or Producing the Material / Product:

Plant Activities

Physical State : ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color : yellowish brown Odor : solvent mineral spirit

Specific Gravity (Water=1) : .96-1 Density : 8 lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers : ☒ Single-Phas ☐ Multi-Phase

Container Type : ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Container Size : 5000

Number Of Units : 2

Product

Proper U.S. DOT Shipping Name : Combustible Liquid, N.O.S. (napthalene, trimethylbenzene)

Class : 3 UN/NA : NA1993 PG : III RQ :

Flash Point >140	pH N/A	Reactive Sulfides BRL mg/l	Reactive Cyanides BRL mg/l	Solids <1 %
Oil and Grease >1500 mg/l	TOC >1500 mg/l	Zinc 0 mg/l	Copper 0 mg/l	Nickel 0 mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The material / product consists of the following materials		Ranges are acceptable	or %
A 150 SOLVENT		98-99.9	%
H619 RESIDUE		.1-1	%
DIRT & RUST SCALE		.1-.5	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.

LEVEL C

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.

MSDS, CES LAB EVALUATION

SECTION 7: Incompatibilities

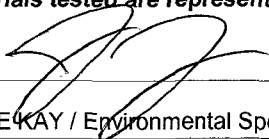
Please list all incompatibilities (if any):

OXIDIZERS

SECTION 8: Material Producer's Certification

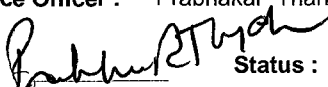
The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature :



Date : 6/26/2009

Printed Name / Title : DEWAINE KAY / Environmental Specialist

CES USE ONLY (DO NOT WRITE IN THIS SPACE)		Process Facility Information :	
Compliance Officer : Prabhakar Thangudu			
Date : 	Status : <input checked="" type="radio"/> Approved <input type="radio"/> Rejected		
Approval Number : HOU-3405			



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

CES pays \$.20/gallon for product

2. Contamination Limit (maximum limit before surcharges apply):

< 3% solids,
< 1% water

3. Surcharge Pricing:

if water or excessive solids are present call Joe Camp

4. Special Testing Requirements:

centrifuge spin out

5. Treatment and Handling Protocol:

material can be sold as unrestricted light ends,
material is combustible so use necessary PPE and handle
with care

6. Treated Wastewater Discharge Subcategory:

N/A

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

--

MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company

A Division of Exxon Mobil Corporation

(b) (4)



Continues on page 2

MATERIAL SAFETY DATA SHEET

(b) (4)



Continues on page 3

MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company

(b) (4)



Continues on page 4

MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company

(b) (4)



Continues on page 5

MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company

(b) (4)



Continues on page 6

MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company

(b) (4)



Continues on page 7

MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company

A Division of Exxon Mobil Corporation

(b) (4)



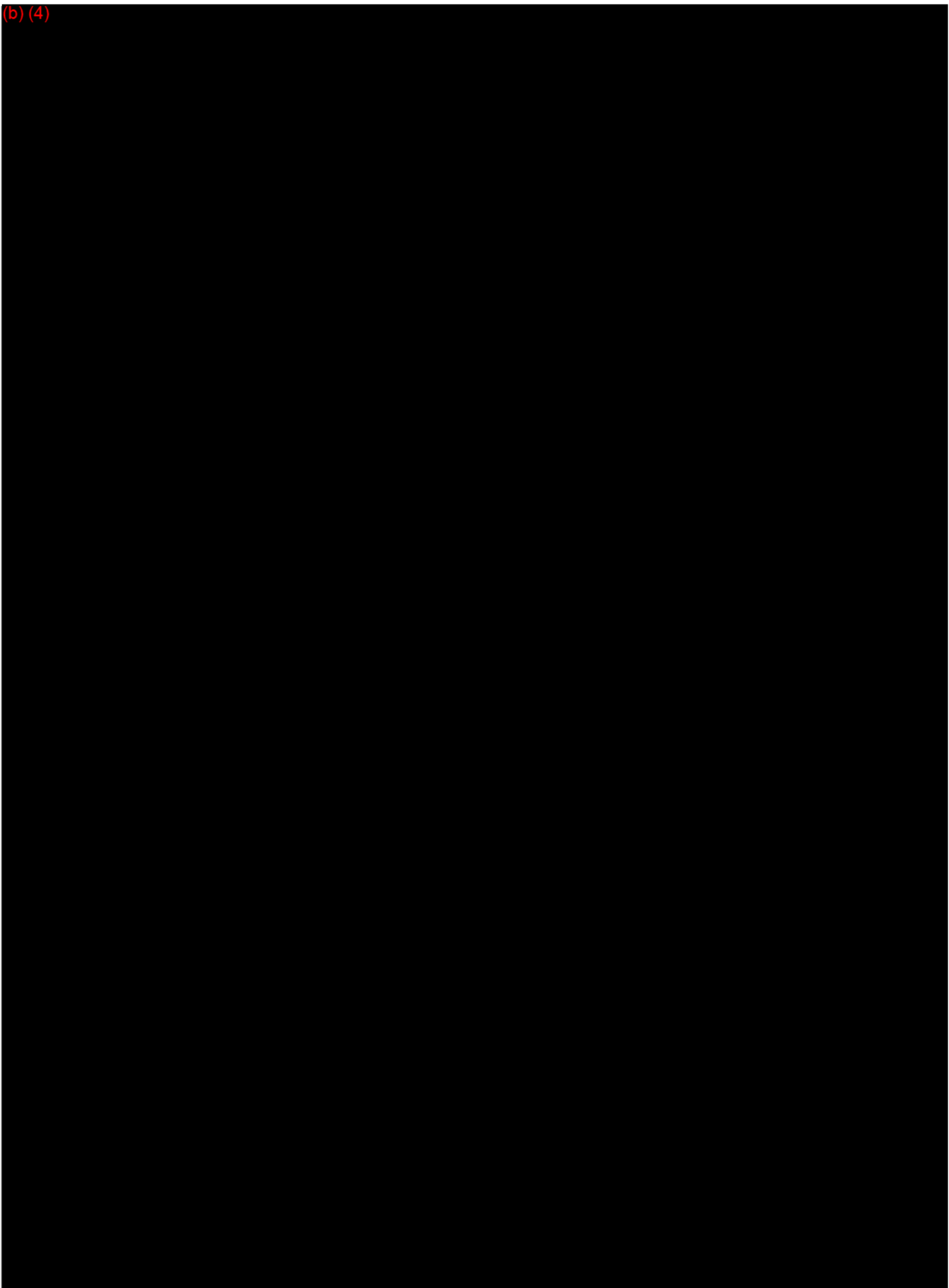
LAST PAGE

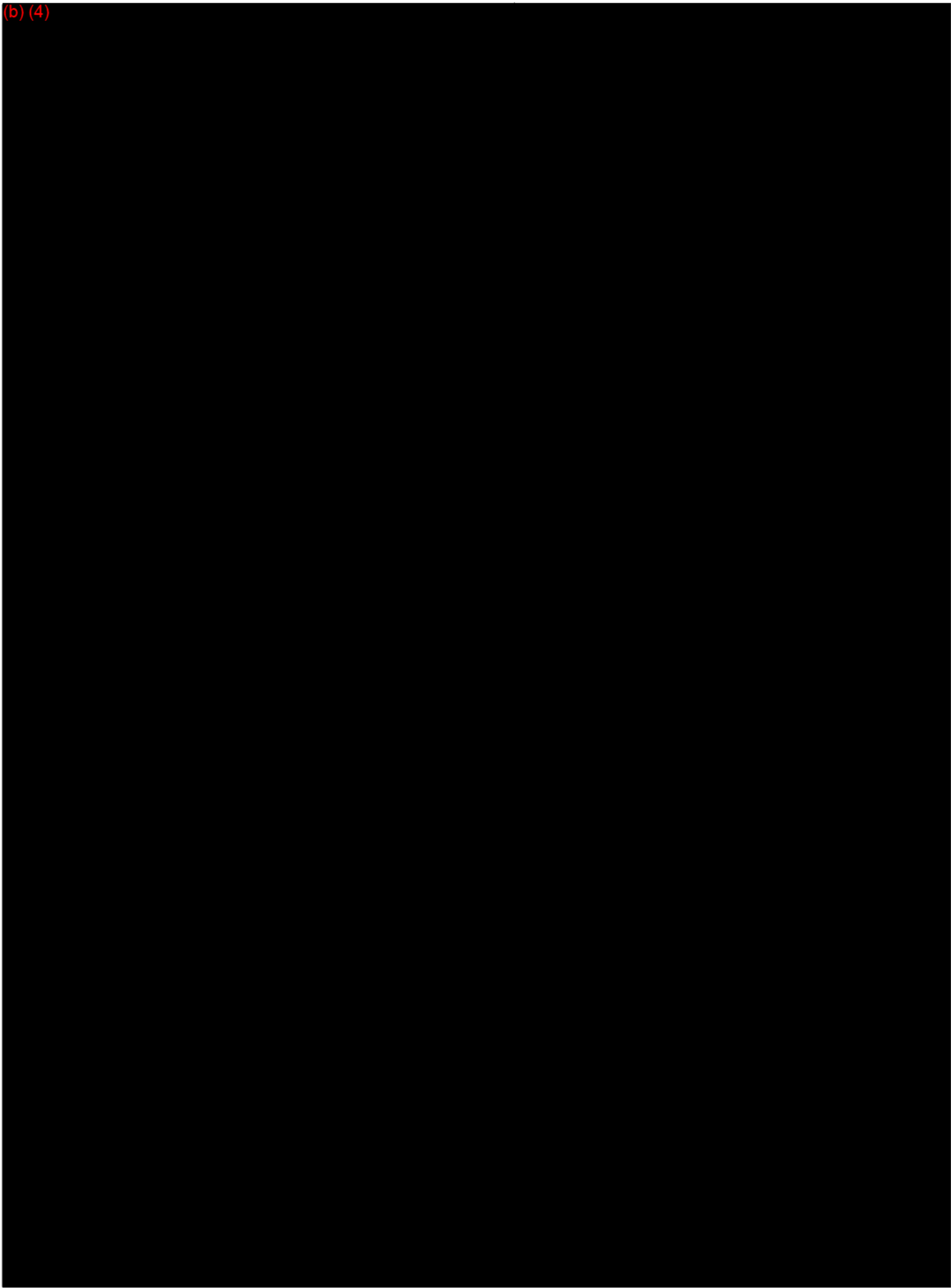


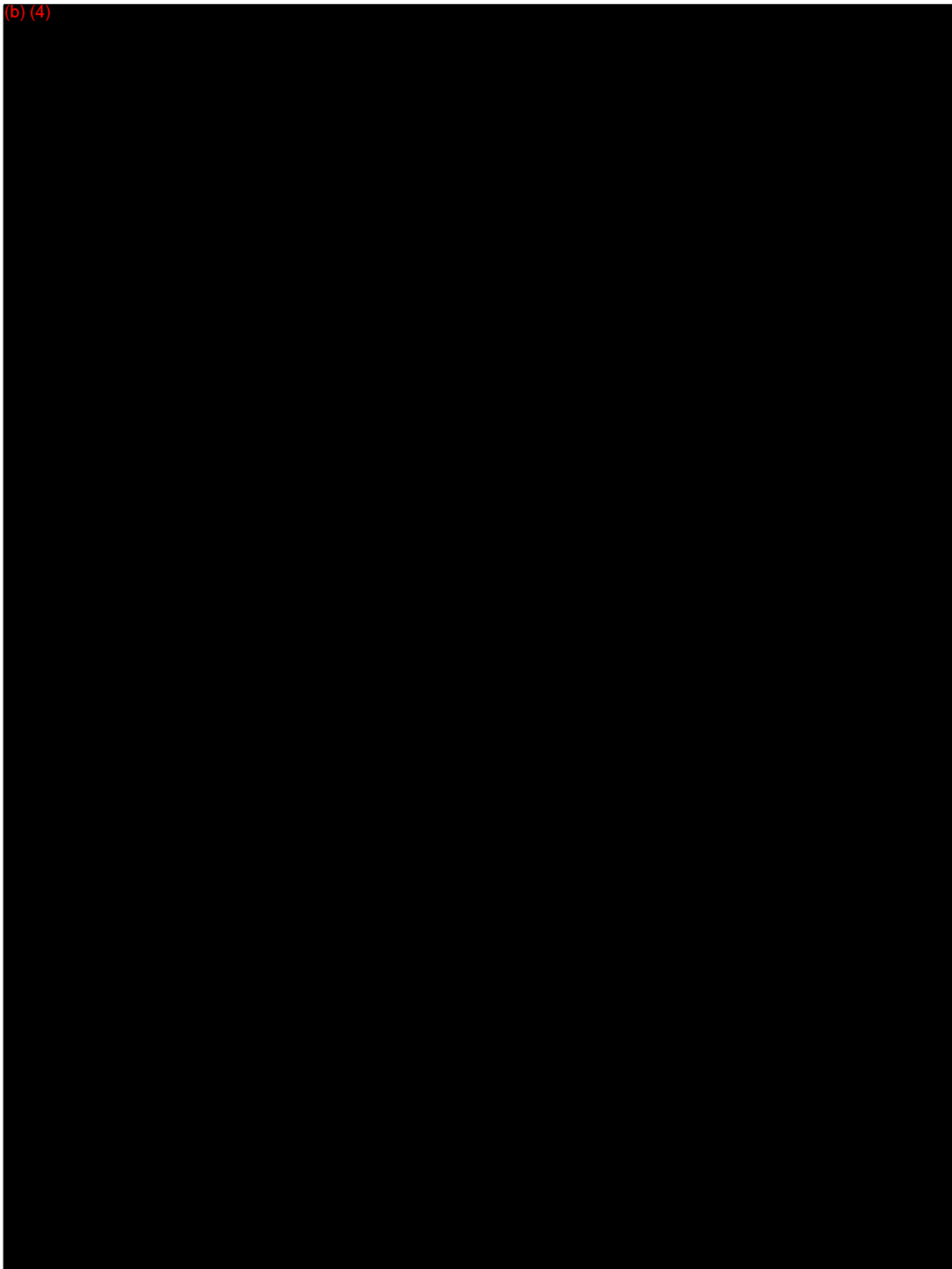
Material Safety Data Sheet

(b) (4)

A large black rectangular redaction box covers the majority of the page content, starting below the header and ending above the footer. The text "(b) (4)" is printed in red at the top left corner of this redacted area.







(b) (4)



*** END OF MSDS ***

3406
San Jacinto college



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 7/2/2009

Dear Bill Miller

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3406

Expiration Date 6/29/2011

Generator: San Jacinto College District- South Campus

Address: 13725 Beamer Rd.
Houston, TX 77098

Waste Information

Name of Waste: Class 2 Solids (Thermal storage tank solids)

TCEQ Waste Code #: CESQ5192

Container Type:

Detailed Description of Process Generating Waste:

removal of solids that precipitated out of city water stored in tank

Color: brown

Odor: none

pH: 8-10

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



ISL
Houston DC/LS

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: San Jacinto College district-South Campus
Address: 13735 Beamer Road
City: Houston State: TX Zip: 77098
Contact: Bill Miller Title:
Phone Number: (281)478-2736 Fax Number: (281)478-2731
24/hr Phone Number:
US EPA ID No: N/A
State ID No: N/A SIC Code:

SECTION 2: Billing Information - ☐ Same as Above

Company: San Jacinto College District
Address: 4624 Fairmont Pkwy.
City: Pasadena State: TX Zip: 77504
Contact: Bill Miller Title:
Phone Number: (281) 478-2736 Fax Number: (281) 478-2731

SECTION 3: General Description of the Waste

Name of Waste: Class 2 solids (thermal storage tank solids)

Detailed Description of Process Generating Waste:

Removal of solids that precipitated out of city water stored in tank

Physical State: ☐ Liquid ☒ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☒ Combination

Color: brown Odor: None

Specific Gravity (water=1): 1.05 Density: None lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☐ One-Time

Quantity:

EPAHO109000532

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number: CESQ5192

Proper US DOT Shipping Name: Non-RCRA/Non-DOT Regulated Material

Class: NA **UN/NA:** NA **PG :** NA **RQ:** NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>150		8-10		BRL <u>mg/l</u>		BRL <u>mg/l</u>		50-90 <u>%</u>	
Oil & Grease		TOC		Zinc		Copper		Nickel	
<1500	<u>mg/l</u>	1000	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. Analytical 09030051.02

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

non known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:

TCLP Volatiles:

TCLP Semi-Volatiles:

Reactivity:

Corrosivity:

Ignitability:

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES

☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
 Chromium: 8.9 mg/L
 Copper: 4.9 mg/L
 Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:

Bill Miller

Date:

6-29-09

Printed Name/Title:

Bill Miller/Assoc. Director of Physical Plant**CES USE ONLY (DO NOT WRITE IN THIS SPACE)**

Compliance Officer:

Andrew K. [Signature]

Date:

6-29-09☒ Approved☐ Rejected

Approval Number:



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$75.00/yard plus Freight

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

Tests to be redirected

5. Treatment and Handling Protocol:

Redirected to landfill Class 2 solids

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

--

Laboratory Analysis Report

Total Number of Pages: 29

Job ID : 09030051



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :

San Jacinto College District - South TES & Central TES

Report To :	Client Name:	Nalco Company	P.O.#:
	Attn:	Bill R. Fritsche	Sample Collected By: Bill Fritsche
	Client Address:	7705 Highway 90-A	Date Collected: 03/03/09 - 03/06/09
	City, State, Zip:	Sugarland, Texas, 77478	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
STES-SJCD-S1&S2	Liquid	09030051.01
CTES-SJCD-C1&C2	Liquid	09030051.02
STES-SJCD Duplicate Samples S3, S4, S5, S6	Liquid	09030051.03

Sonia West

Released By: Sonia West

Title: Senior Project Manager

Date: 3/12/2009



This Laboratory is NELAP (T104704213-08B-TX) accredited. Effective: 07/01/2008; Expires: 06/03/2009

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Date Received : 03/03/2009 15:45

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 09030051

Date: 3/12/2009

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight		

Qualifier Definition

M1	Matrix Spike/Matrix Spike Duplicate recovery is above laboratory control limits due to matrix interference.
S1	Surrogate recovery is above control limit.

**LABORATORY TEST RESULTS**

Job ID : 09030051

Date 3/12/2009

Client Name: Nalco Company

Attn: Bill R. Fritsche

Project Name: San Jacinto College District - South TES & Central TES

Client Sample ID: STES-SJCD-S1&S2

Job Sample ID: 09030051.01

Date Collected: 03/03/09

Sample Matrix Liquid

Time Collected: 10:00

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 1010	Ignitability (Flash Point)								
	Ignitability	>150	°F	1				03/10/09 08:00	SG
SW-846 7.3	Reactive Cyanide								
	Reactive Cyanide	BRL	mg/L	1	25			03/05/09 15:00	KS
SW-846 7.3	Reactive Sulfide								
	Reactive Sulfide	BRL	mg/L	1	25			03/05/09 08:30	KS
SW-846 9040C	Corrosivity, pH								
	pH	8.60	s.u.					03/04/09 10:00	RK



LABORATORY TEST RESULTS

Job ID : 09030051

Date 3/12/2009

Client Name: Nalco Company

Attn: Bill R. Fritsche

Project Name: San Jacinto College District - South TES & Central TES

Client Sample ID: CTES-SJCD-C1&C2

Job Sample ID: 09030051.02

Date Collected: 03/03/09

Sample Matrix Liquid

Time Collected: 13:00

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 1010	Ignitability (Flash Point)								
	Ignitability	>150	°F	1				03/10/09 08:00	SG
SW-846 6010C	TCLP Metals								
	Arsenic	BRL	mg/L	1	0.04	5.0		03/05/09 18:57	TK
	Barium	0.068	mg/L	1	0.04	100.0		03/05/09 18:57	TK
	Cadmium	BRL	mg/L	1	0.04	1.0		03/05/09 18:57	TK
	Chromium	BRL	mg/L	1	0.04	5.0		03/05/09 18:57	TK
	Lead	BRL	mg/L	1	0.04	5.0		03/05/09 18:57	TK
	Selenium	BRL	mg/L	1	0.1	1.0		03/05/09 18:57	TK
	Silver	BRL	mg/L	1	0.04	5.0		03/05/09 18:57	TK
SW-846 7.3	Reactive Cyanide								
	Reactive Cyanide	BRL	mg/L	1	25			03/05/09 15:00	KS
SW-846 7.3	Reactive Sulfide								
	Reactive Sulfide	BRL	mg/L	1	25			03/05/09 08:30	KS
SW-846 7470A	TCLP Metals, Mercury								
	Mercury	BRL	mg/L	1	0.0005	0.2		03/05/09 17:02	TK
SW-846 8081A	TCLP Pesticides								
	Chlordane	BRL	ug/L	1	25	30		03/09/09 15:04	PNS
	Endrin	BRL	ug/L	1	2.5	20		03/09/09 15:04	PNS
	g-BHC	BRL	ug/L	1	2.5	300		03/09/09 15:04	PNS
	Heptachlor	BRL	ug/L	1	2.5	8		03/09/09 15:04	PNS
	Heptachlor epoxide	BRL	ug/L	1	2.5	8		03/09/09 15:04	PNS
	Methoxychlor	BRL	ug/L	1	2.5	10000		03/09/09 15:04	PNS
	Toxaphene	BRL	ug/L	1	25	500		03/09/09 15:04	PNS
	Decachlorobiphenyl(surr)	77	%	1	10-126			03/09/09 15:04	PNS
	Tetrachloro-m-xylene(surr)	71.3	%	1	12-106			03/09/09 15:04	PNS
SW-846 8151A	TCLP Herbicides								
	2,4,5-TP	BRL	ug/L	1	25	1000		03/09/09 19:18	PNS
	2,4-D	BRL	ug/L	1	25	10000		03/09/09 19:18	PNS
	DCPAA(surr)	90.3	%	1	38-120			03/09/09 19:18	PNS
SW-846 8260B	TCLP VOC								
	1,1-Dichloroethylene	BRL	mg/L	1	0.13	0.6		03/05/09 15:13	HW
	1,2-Dichloroethane	BRL	mg/L	1	0.13	0.5		03/05/09 15:13	HW
	1,4-Dichlorobenzene	BRL	mg/L	1	0.15	7.5		03/05/09 15:13	HW
	Benzene	BRL	mg/L	1	0.13	0.5		03/05/09 15:13	HW
	Carbon tetrachloride	BRL	mg/L	1	0.13	0.5		03/05/09 15:13	HW
	Chlorobenzene	BRL	mg/L	1	0.15	70		03/05/09 15:13	HW
	Chloroform	BRL	mg/L	1	0.13	6		03/05/09 15:13	HW
	MEK	BRL	mg/L	1	0.13	200		03/05/09 15:13	HW



LABORATORY TEST RESULTS

Job ID : 09030051

Date 3/12/2009

Client Name: Nalco Company

Attn: Bill R. Fritsche

Project Name: San Jacinto College District - South TES & Central TES

Client Sample ID: CTES-SJCD-C1&C2

Job Sample ID: 09030051.02

Date Collected: 03/03/09

Sample Matrix Liquid

Time Collected: 13:00

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260B	TCLP VOC								
	Tetrachloroethylene	BRL	mg/L	1	0.16	0.7		03/05/09 15:13	HW
	Trichloroethylene	BRL	mg/L	1	0.13	0.5		03/05/09 15:13	HW
	Vinyl Chloride	BRL	mg/L	1	0.1	0.2		03/05/09 15:13	HW
	Dibromofluoromethane(surr)	110	%	1	70-130			03/05/09 15:13	HW
	p-Bromofluorobenzene(surr)	101	%	1	70-130			03/05/09 15:13	HW
	1,2-Dichloroethane-d4(surr)	97.1	%	1	70-130			03/05/09 15:13	HW
	Toluene-d8(surr)	101	%	1	70-130			03/05/09 15:13	HW
SW-846 8270D	TCLP Semivolatiles								
	1,4-Dichlorobenzene	BRL	mg/L	1	0.05	7.5		03/09/09 12:09	ML
	2,4,5-Trichlorophenol	BRL	mg/L	1	0.05	400		03/09/09 12:09	ML
	2,4,6-Trichlorophenol	BRL	mg/L	1	0.05	2		03/09/09 12:09	ML
	2,4-Dinitrotoluene	BRL	mg/L	1	0.05	0.13		03/09/09 12:09	ML
	2-Methylphenol	BRL	mg/L	1	0.05	200		03/09/09 12:09	ML
	3- & 4-Methylphenols	BRL	mg/L	1	0.05	200		03/09/09 12:09	ML
	Hexachlorobenzene	BRL	mg/L	1	0.05	0.13		03/09/09 12:09	ML
	Hexachlorobutadiene	BRL	mg/L	1	0.05	0.4		03/09/09 12:09	ML
	Hexachloroethane	BRL	mg/L	1	0.05	3		03/09/09 12:09	ML
	Nitrobenzene	BRL	mg/L	1	0.05	2		03/09/09 12:09	ML
	Pentachlorophenol	BRL	mg/L	1	0.05	100		03/09/09 12:09	ML
	Pyridine	BRL	mg/L	1	0.05	4		03/09/09 12:09	ML
	2-Fluorobiphenyl(surr)	64.9	%	1	30-115			03/09/09 12:09	ML
	2-Fluorophenol(surr)	46.7	%	1	15-111			03/09/09 12:09	ML
	Phenol-d6(surr)	43.6	%	1	15-120			03/09/09 12:09	ML
	p-Terphenyl-d14(surr)	63.9	%	1	18-137			03/09/09 12:09	ML
	2,4,6-Tribromophenol(surr)	45	%	1	10-120			03/09/09 12:09	ML
	Nitrobenzene-d5(surr)	54.8	%	1	20-120			03/09/09 12:09	ML
SW-846 9040C	Corrosivity, pH								
	pH	8.76	s.u.					03/04/09 10:00	RK



LABORATORY TEST RESULTS

Job ID : 09030051

Date 3/12/2009

Client Name: Nalco Company

Attn: Bill R. Fritsche

Project Name: San Jacinto College District - South TES & Central TES

Client Sample ID: STES-SJCD Duplicate Samples S3, S4, S5, S6

Job Sample ID: 09030051.03

Date Collected: 03/06/09

Sample Matrix Liquid

Time Collected: 08:00

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	TCLP Metals								
	Arsenic	BRL	mg/L	1	0.04	5.0		03/10/09 13:08	TK
	Barium	BRL	mg/L	1	0.04	100.0		03/10/09 13:08	TK
	Cadmium	BRL	mg/L	1	0.04	1.0		03/10/09 13:08	TK
	Chromium	BRL	mg/L	1	0.04	5.0		03/10/09 13:08	TK
	Lead	BRL	mg/L	1	0.04	5.0		03/10/09 13:08	TK
	Selenium	BRL	mg/L	1	0.1	1.0		03/10/09 13:08	TK
	Silver	BRL	mg/L	1	0.04	5.0		03/10/09 13:08	TK
SW-846 7470A	TCLP Metals, Mercury								
	Mercury	BRL	mg/L	1	0.0005	0.2		03/10/09 11:56	TK
SW-846 8081A	TCLP Pesticides								
	Chlordane	BRL	ug/L	1	25	30		03/11/09 11:55	PNS
	Endrin	BRL	ug/L	1	2.5	20		03/11/09 11:55	PNS
	g-BHC	BRL	ug/L	1	2.5	300		03/11/09 11:55	PNS
	Heptachlor	BRL	ug/L	1	2.5	8		03/11/09 11:55	PNS
	Heptachlor epoxide	BRL	ug/L	1	2.5	8		03/11/09 11:55	PNS
	Methoxychlor	BRL	ug/L	1	2.5	10000		03/11/09 11:55	PNS
	Toxaphene	BRL	ug/L	1	25	500		03/11/09 11:55	PNS
	Tetrachloro-m-xylene(surr)	83	%	1	12-106			03/11/09 11:55	PNS
	Decachlorobiphenyl(surr)	80.5	%	1	10-126			03/11/09 11:55	PNS
SW-846 8151A	TCLP Herbicides								
	2,4,5-TP	BRL	ug/L	1	25	1000		03/11/09 16:09	PNS
	2,4-D	BRL	ug/L	1	25	10000		03/11/09 16:09	PNS
	DCPAA(surr)	67.8	%	1	38-120			03/11/09 16:09	PNS
SW-846 8260B	TCLP VOC								
	1,1-Dichloroethylene	BRL	mg/L	1	0.13	0.6		03/10/09 19:25	HW
	1,2-Dichloroethane	BRL	mg/L	1	0.13	0.5		03/10/09 19:25	HW
	1,4-Dichlorobenzene	BRL	mg/L	1	0.15	7.5		03/10/09 19:25	HW
	Benzene	BRL	mg/L	1	0.13	0.5		03/10/09 19:25	HW
	Carbon tetrachloride	BRL	mg/L	1	0.13	0.5		03/10/09 19:25	HW
	Chlorobenzene	BRL	mg/L	1	0.15	70		03/10/09 19:25	HW
	Chloroform	BRL	mg/L	1	0.13	6		03/10/09 19:25	HW
	MEK	BRL	mg/L	1	0.13	200		03/10/09 19:25	HW
	Tetrachloroethylene	BRL	mg/L	1	0.16	0.7		03/10/09 19:25	HW
	Trichloroethylene	BRL	mg/L	1	0.13	0.5		03/10/09 19:25	HW
	Vinyl Chloride	BRL	mg/L	1	0.1	0.2		03/10/09 19:25	HW
	1,2-Dichloroethane-d4(surr)	95.2	%	1	70-130			03/10/09 19:25	HW
	Dibromofluoromethane(surr)	103	%	1	70-130			03/10/09 19:25	HW
	p-Bromofluorobenzene(surr)	108	%	1	70-130			03/10/09 19:25	HW



LABORATORY TEST RESULTS

Job ID : 09030051

Date 3/12/2009

Client Name: Nalco Company

Attn: Bill R. Fritsche

Project Name: San Jacinto College District - South TES & Central TES

Client Sample ID: STES-SJCD Duplicate Samples S3, S4, S5, S6

Job Sample ID: 09030051.03

Date Collected: 03/06/09

Sample Matrix Liquid

Time Collected: 08:00

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8260B	TCLP VOC								
	Toluene-d8(surr)	103	%	1	70-130			03/10/09 19:25	HW
SW-846 8270D	TCLP Semivolatiles								
	1,4-Dichlorobenzene	BRL	mg/L	1	0.05	7.5		03/10/09 14:13	ML
	2,4,5-Trichlorophenol	BRL	mg/L	1	0.05	400		03/10/09 14:13	ML
	2,4,6-Trichlorophenol	BRL	mg/L	1	0.05	2		03/10/09 14:13	ML
	2,4-Dinitrotoluene	BRL	mg/L	1	0.05	0.13		03/10/09 14:13	ML
	2-Methylphenol	BRL	mg/L	1	0.05	200		03/10/09 14:13	ML
	3- & 4-Methylphenols	BRL	mg/L	1	0.05	200		03/10/09 14:13	ML
	Aniline	BRL	mg/L	1	0.05			03/10/09 14:13	ML
	Hexachlorobenzene	BRL	mg/L	1	0.05	0.13		03/10/09 14:13	ML
	Hexachlorobutadiene	BRL	mg/L	1	0.05	0.4		03/10/09 14:13	ML
	Hexachloroethane	BRL	mg/L	1	0.05	3		03/10/09 14:13	ML
	Nitrobenzene	BRL	mg/L	1	0.05	2		03/10/09 14:13	ML
	Pentachlorophenol	BRL	mg/L	1	1.25	100		03/10/09 14:13	ML
	Phenol	BRL	mg/L	1	0.05			03/10/09 14:13	ML
	Pyridine	BRL	mg/L	1	0.05	4		03/10/09 14:13	ML
	Nitrobenzene-d5(surr)	46.3	%	1	20-120			03/10/09 14:13	ML
	Phenol-d6(surr)	38.8	%	1	15-120			03/10/09 14:13	ML
	2-Fluorophenol(surr)	46.1	%	1	15-111			03/10/09 14:13	ML
	p-Terphenyl-d14(surr)	22.3	%	1	18-137			03/10/09 14:13	ML
	2,4,6-Tribromophenol(surr)	44.2	%	1	10-120			03/10/09 14:13	ML
	2-Fluorobiphenyl(surr)	54.8	%	1	30-115			03/10/09 14:13	ML

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : Corrosivity, pH

Method : SW-846 9040C

Reporting Units : s.u.

QC Batch ID : Qb09030402

Created Date : 03/04/09

Created By : Rkurus

Samples in This QC Batch : 09030051.01,02

QC Type: Duplicate

QC Sample ID: 09030051.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
pH	8.61	8.60	s.u.	0.1	5	

QC Type: LCS and LCSD

Parameter	LCS Assigned	LCS Result	LCSD Assigned	LCSD Result	RPD	RPD CtrlLimit	Tolerance	Qual
pH	4.00	3.99					3.95-4.05	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : TCLP Metals Method : SW-846 6010C Reporting Units : mg/L

QC Batch ID : Qb09030554 Created Date : 03/05/09 Created By : Tkhuc

Samples in This QC Batch : 09030051.02

Digestion : PB09030527 Prep Method : SW-846 3010A Prep Date : 03/05/09 12:00 Prep By : Tkhuc
TCLP Prep : PB09030505 Prep Method : SW-846 1311 Prep Date : 03/04/09 16:55 Prep By : Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Arsenic	7440-38-2	BRL	mg/L	1	0.04	
Barium	7440-39-3	BRL	mg/L	1	0.04	
Cadmium	7440-43-9	BRL	mg/L	1	0.04	
Chromium	7440-47-3	BRL	mg/L	1	0.04	
Lead	7439-92-1	BRL	mg/L	1	0.04	
Selenium	7782-49-2	BRL	mg/L	1	0.1	
Silver	7440-22-4	BRL	mg/L	1	0.04	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	2	2.09	105	2	2.05	103	1.9	20	80-120	
Barium	2	1.95	97.5	2	1.91	95.5	2.1	20	80-120	
Cadmium	2	1.94	97	2	1.91	95.5	1.6	20	80-120	
Chromium	2	2.02	101	2	1.98	99	2	20	80-120	
Lead	2	2.01	101	2	1.98	99	1.5	20	80-120	
Selenium	2	2.05	103	2	2.03	102	1	20	80-120	
Silver	2	2.08	104	2	2.04	102	1.9	20	80-120	

QC Type: MS and MSD

QC Sample ID: 09030053.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	BRL	2	2.09	105						45-138	
Barium	12.6	2	13.8	60						39-135	
Cadmium	BRL	2	1.99	98.8						56-125	
Chromium	0.107	2	2.10	99.7						52-125	
Lead	0.657	2	2.60	97.2						55-125	
Selenium	BRL	2	2.07	102						70-130	
Silver	BRL	2	2.05	102						26-148	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : TCLP Metals, Mercury Method : SW-846 7470A Reporting Units : mg/L

QC Batch ID : Qb09030607 Created Date : 03/05/09 Created By : Tkhuc

Samples in This QC Batch : 09030051.02

Digestion : PB09030605 Prep Method : SW-846 7470A Prep Date : 03/05/09 12:30 Prep By : Tkhuc
TCLP Prep : PB09030505 Prep Method : SW-846 1311 Prep Date : 03/04/09 16:55 Prep By : Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Mercury	7439-97-6	BRL	mg/L	1	0.0005	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.005	0.0053	105	0.005	0.0051	102	3.1	35	71-143	

QC Type: MS and MSD

QC Sample ID: 09030042.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.005	0.0048	96	0.005	0.0051	102	5.7	35	61-175	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : TCLP VOC

Method : SW-846 8260B

Reporting Units : mg/L

QC Batch ID : Qb09030609

Created Date : 03/05/09

Created By : Whuimei

Samples in This QC Batch : 09030051.02

Sample Preparation : PB09030508

Prep Method : SW-846 5030C

Prep Date : 03/05/09 10:00 **Prep By :** Whuimei

TCLP Prep : PB09030505

Prep Method : SW-846 1311

Prep Date : 03/04/09 16:55 **Prep By :** Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
1,1-Dichloroethylene	75-35-4	BRL	mg/L	1	0.13	
1,2-Dichloroethane	107-06-2	BRL	mg/L	1	0.13	
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.15	
Benzene	71-43-2	BRL	mg/L	1	0.13	
Carbon tetrachloride	56-23-5	BRL	mg/L	1	0.13	
Chlorobenzene	108-90-7	BRL	mg/L	1	0.15	
Chloroform	67-66-3	BRL	mg/L	1	0.13	
MEK	78-93-3	BRL	mg/L	1	0.13	
Tetrachloroethylene	127-18-4	BRL	mg/L	1	0.16	
Trichloroethylene	79-01-6	BRL	mg/L	1	0.13	
Vinyl Chloride	75-01-4	BRL	mg/L	1	0.1	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,1-Dichloroethylene	0.5	0.539	108	0.5	0.533	107	1.1	25	70-130	
Benzene	0.5	0.522	104	0.5	0.537	107	2.8	25	70-130	
Chlorobenzene	0.5	0.526	105	0.5	0.527	105	0.2	25	70-130	
MEK	0.5	0.504	101	0.5	0.478	95.6	5.3	35	70-130	
Tetrachloroethylene	0.5	0.532	106	0.5	0.542	108	1.9	25	70-130	
Trichloroethylene	0.5	0.519	104	0.5	0.503	101	3.1	25	70-130	

QC Type: MS and MSD

QC Sample ID: 09020752.09

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,1-Dichloroethylene	BRL	0.5	0.516	103						70-130	
Benzene	BRL	0.5	0.534	107						70-130	
Chlorobenzene	BRL	0.5	0.517	103						70-130	
MEK	0.557	0.5	1.01	90.6						70-130	
Trichloroethylene	BRL	0.5	0.53	106						70-130	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : Reactive Sulfide Method : SW-846 7.3 Reporting Units : mg/L

QC Batch ID : Qb09030611 Created Date : 03/05/09 Created By : Ksudha

Samples in This QC Batch : 09030051.01,02

Sample Preparation : PB09030608 Prep Method : SW-846 7.3 Prep Date : 03/04/09 08:15 Prep By : Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Reactive Sulfide		BRL	mg/L	1	25	

QC Type: Duplicate

QC Sample ID: 09020730.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Reactive Sulfide	BRL	BRL	mg/L		20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Reactive Sulfide	900	720	80	900	760	84.4	5.4	20	40-110	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : Reactive Cyanide Method : SW-846 7.3 Reporting Units : mg/L

QC Batch ID : Qb09030614 Created Date : 03/05/09 Created By : Ksudha

Samples in This QC Batch : 09030051.01,02

Sample Preparation : PB09030612 Prep Method : SW-846 7.3 Prep Date : 03/04/09 08:15 Prep By : Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Reactive Cyanide		BRL	mg/L	1	25	

QC Type: Duplicate

QC Sample ID: 09020730.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Reactive Cyanide	BRL	BRL	mg/L		20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Reactive Cyanide	5.0	2.07	41.4	5.0	2.17	43.4	4.7	20	40-110	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : TCLP Pesticides Method : SW-846 8081A Reporting Units : ug/L

QC Batch ID : Qb09031013 Created Date : 03/10/09 Created By : Psaraiya

Samples in This QC Batch : 09030051.02

Extraction : PB09030908 Prep Method : SW-846 3510C Prep Date : 03/09/09 10:00 Prep By : Lwang
TCLP Prep : PB09030505 Prep Method : SW-846 1311 Prep Date : 03/04/09 16:55 Prep By : Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Chlordane	57-74-9	BRL	ug/L	1	25	
Endrin	72-20-8	BRL	ug/L	1	2.5	
g-BHC	58-89-9	BRL	ug/L	1	2.5	
Heptachlor	76-44-8	BRL	ug/L	1	2.5	
Heptachlor epoxide	1027-57-3	BRL	ug/L	1	2.5	
Methoxychlor	72-43-5	BRL	ug/L	1	2.5	
Toxaphene	8001-35-2	BRL	ug/L	1	25	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Endrin	5	4.46	89.2	5	5.35	107	18.1	25	50-130	
g-BHC	5	4.11	82.2	5	4.89	97.8	17.3	25	50-130	
Heptachlor	5	2.64	52.8	5	3.15	63	17.6	25	50-130	
Heptachlor epoxide	5	4.24	84.8	5	5.03	101	17	25	50-130	
Methoxychlor	5	5.19	104	5	6.44	129	21.5	25	50-130	

QC Type: MS and MSD

QC Sample ID: 09030051.02

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Endrin	BRL	5	5.78	116						40-140	
g-BHC	BRL	5	4.94	98.8						40-140	
Heptachlor	BRL	5	3.59	71.8						40-140	
Heptachlor epoxide	BRL	5	6.43	129						40-140	
Methoxychlor	BRL	5	5.01	100						40-140	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : TCLP Metals Method : SW-846 6010C Reporting Units : mg/L

QC Batch ID : Qb09031016 Created Date : 03/10/09 Created By : Tkhuc

Samples in This QC Batch : 09030051.03

Digestion : PB09031013 Prep Method : SW-846 3010A Prep Date : 03/10/09 10:00 Prep By : Tkhuc
TCLP Prep : PB09031006 Prep Method : SW-846 1311 Prep Date : 03/09/09 16:25 Prep By : Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Arsenic	7440-38-2	BRL	mg/L	1	0.04	
Barium	7440-39-3	BRL	mg/L	1	0.04	
Cadmium	7440-43-9	BRL	mg/L	1	0.04	
Chromium	7440-47-3	BRL	mg/L	1	0.04	
Lead	7439-92-1	BRL	mg/L	1	0.04	
Selenium	7782-49-2	BRL	mg/L	1	0.1	
Silver	7440-22-4	BRL	mg/L	1	0.04	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	2	2.09	105	2	2.11	106	1	20	80-120	
Barium	2	1.90	95	2	1.93	96.5	1.6	20	80-120	
Cadmium	2	1.92	96	2	1.94	97	1	20	80-120	
Chromium	2	1.97	98.5	2	1.99	99.5	1	20	80-120	
Lead	2	1.99	99.5	2	2.01	101	1	20	80-120	
Selenium	2	2.08	104	2	2.10	105	1	20	80-120	
Silver	2	2.06	103	2	2.09	105	1.4	20	80-120	

QC Type: MS and MSD

QC Sample ID: 09030131.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	BRL	2	2.19	110						45-138	
Barium	BRL	2	2.06	102						39-135	
Cadmium	BRL	2	1.99	99.3						56-125	
Chromium	BRL	2	2.10	105						52-125	
Lead	BRL	2	2.10	105						55-125	
Selenium	BRL	2	2.08	104						70-130	
Silver	BRL	2	2.11	105						26-148	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : Ignitability (Flash Point)

Method : SW-846 1010

Reporting Units : °F

QC Batch ID : Qb09031025

Created Date : 03/10/09

Created By : Sgarcia

Samples in This QC Batch : 09030051.01,02

QC Type: Duplicate

QC Sample ID: 09030051.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Ignitability	>150	>150	°F		20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Ignitability	83	86	104	83	86	104	0	20	75-125	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : TCLP Metals, Mercury Method : SW-846 7470A Reporting Units : mg/L

QC Batch ID : Qb09031028 Created Date : 03/10/09 Created By : Tkhuc

Samples in This QC Batch : 09030051.03

Digestion : PB09031019 Prep Method : SW-846 7470A Prep Date : 03/10/09 09:30 Prep By : Tkhuc
TCLP Prep : PB09031006 Prep Method : SW-846 1311 Prep Date : 03/09/09 16:25 Prep By : Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Mercury	7439-97-6	BRL	mg/L	1	0.0005	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.005	0.0049	98.2	0.005	0.0049	98.2	0	35	71-143	

QC Type: MS and MSD

QC Sample ID: 09020685.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.005	0.0052	103	0.005	0.0052	105	1.7	35	61-175	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : TCLP Semivolatiles Method : SW-846 8270D Reporting Units : mg/L

QC Batch ID : Qb09031034 Created Date : 03/10/09 Created By : Mli

Samples in This QC Batch : 09030051.02

Extraction : PB09030906 Prep Method : SW-846 3510C Prep Date : 03/09/09 08:00 Prep By : Lwang
TCLP Prep : PB09030505 Prep Method : SW-846 1311 Prep Date : 03/04/09 16:55 Prep By : Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.05	
2,4,5-Trichlorophenol	95-95-4	BRL	mg/L	1	0.05	
2,4,6-Trichlorophenol	88-06-2	BRL	mg/L	1	0.05	
2,4-Dinitrotoluene	121-14-2	BRL	mg/L	1	0.05	
2-Methylphenol	95-48-7	BRL	mg/L	1	0.05	
3- & 4-Methylphenols	108-39-4 & 106-44-5	BRL	mg/L	1	0.05	
Hexachlorobenzene	118-74-1	BRL	mg/L	1	0.05	
Hexachlorobutadiene	87-68-3	BRL	mg/L	1	0.05	
Hexachloroethane	67-72-1	BRL	mg/L	1	0.05	
Nitrobenzene	98-95-3	BRL	mg/L	1	0.05	
Pentachlorophenol	87-86-5	BRL	mg/L	1	1.25	
Pyridine	110-861	BRL	mg/L	1	0.05	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,4-Dichlorobenzene	0.25	0.163	65.2	0.25	0.169	67.6	3.6	35	24-134	
2,4,5-Trichlorophenol	0.25	0.17	68	0.25	0.158	63.2	7.3	35	6-115	
2,4,6-Trichlorophenol	0.25	0.142	56.8	0.25	0.143	57.2	0.7	35	40-138	
2,4-Dinitrotoluene	0.25	0.183	73.2	0.25	0.169	67.6	8	35	32-114	
2-Methylphenol	0.25	0.168	67.2	0.25	0.167	66.8	0.6	35	6-132	
3- & 4-Methylphenols	0.5	0.318	63.6	0.5	0.33	66	3.7	35	29-132	
Hexachlorobenzene	0.25	0.134	53.6	0.25	0.146	58.4	8.6	35	44-142	
Hexachlorobutadiene	0.25	0.133	53.2	0.25	0.139	55.6	4.4	35	20-124	
Hexachloroethane	0.25	0.179	71.6	0.25	0.182	72.8	1.7	35	14-136	
Nitrobenzene	0.25	0.213	85.2	0.25	0.203	81.2	4.8	35	38-146	
Pentachlorophenol	0.25	0.092	36.8	0.25	0.083	33.2	10.3	35	25-125	
Pyridine	0.25	0.095	38	0.25	0.101	40.4	6.1	35	6-112	

QC Type: MS and MSD

QC Sample ID: 09030051.02

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,4-Dichlorobenzene	BRL	0.25	0.139	55.6						24-134	
2,4,5-Trichlorophenol	BRL	0.25	0.171	68.4						6-115	
2,4,6-Trichlorophenol	BRL	0.25	0.121	48.4						40-138	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : TCLP Semivolatiles

Method : SW-846 8270D

Reporting Units : mg/L

QC Batch ID : Qb09031034

Created Date : 03/10/09

Created By : Mli

Samples in This QC Batch : 09030051.02

QC Type: MS and MSD

QC Sample ID: 09030051.02

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,4-Dinitrotoluene	BRL	0.25	0.168	67.2						32-114	
2-Methylphenol	BRL	0.25	0.096	38.4						6-132	
3- & 4-Methylphenols	BRL	0.5	0.201	40.2						29-132	
Hexachlorobenzene	BRL	0.25	0.144	57.6						44-142	
Hexachlorobutadiene	BRL	0.25	0.109	43.6						20-124	
Hexachloroethane	BRL	0.25	0.15	60						14-136	
Nitrobenzene	BRL	0.25	0.152	60.8						38-146	
Pentachlorophenol	BRL	0.25	0.119	47.6						25-125	
Pyridine	BRL	0.25	0.074	29.6						6-112	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : TCLP Semivolatiles Method : SW-846 8270D Reporting Units : mg/L

QC Batch ID : Qb09031105 Created Date : 03/11/09 Created By : Mli

Samples in This QC Batch : 09030051.03

Extraction : PB09031011 Prep Method : SW-846 3510C Prep Date : 03/10/09 11:00 Prep By : Lwang
TCLP Prep : PB09031006 Prep Method : SW-846 1311 Prep Date : 03/09/09 16:25 Prep By : Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.05	
2,4,5-Trichlorophenol	95-95-4	BRL	mg/L	1	0.05	
2,4,6-Trichlorophenol	88-06-2	BRL	mg/L	1	0.05	
2,4-Dinitrotoluene	121-14-2	BRL	mg/L	1	0.05	
2-Methylphenol	95-48-7	BRL	mg/L	1	0.05	
3- & 4-Methylphenols	108-39-4 & 106-44-5	BRL	mg/L	1	0.05	
Aniline	62-53-3	BRL	mg/L	1	0.05	
Hexachlorobenzene	118-74-1	BRL	mg/L	1	0.05	
Hexachlorobutadiene	87-68-3	BRL	mg/L	1	0.05	
Hexachloroethane	67-72-1	BRL	mg/L	1	0.05	
Nitrobenzene	98-95-3	BRL	mg/L	1	0.05	
Pentachlorophenol	87-86-5	BRL	mg/L	1	1.25	
Phenol	108-95-2	BRL	mg/L	1	0.05	
Pyridine	110-861	BRL	mg/L	1	0.05	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,4-Dichlorobenzene	0.25	0.162	64.8	0.25	0.167	66.8	3	35	24-134	
2,4,5-Trichlorophenol	0.25	0.182	72.8	0.25	0.173	69.2	5.1	35	6-115	
2,4,6-Trichlorophenol	0.25	0.139	55.6	0.25	0.148	59.2	6.3	35	40-138	
2,4-Dinitrotoluene	0.25	0.171	68.4	0.25	0.175	70	2.3	35	32-114	
2-Methylphenol	0.25	0.153	61.2	0.25	0.165	66	7.6	35	6-132	
3- & 4-Methylphenols	0.5	0.307	61.4	0.5	0.346	69.2	11.9	35	29-132	
Hexachlorobenzene	0.25	0.136	54.4	0.25	0.146	58.4	7.1	35	44-142	
Hexachlorobutadiene	0.25	0.131	52.4	0.25	0.146	58.4	10.8	35	20-124	
Hexachloroethane	0.25	0.175	70	0.25	0.179	71.6	2.3	35	14-136	
Nitrobenzene	0.25	0.188	75.2	0.25	0.184	73.6	2.2	35	38-146	
Pentachlorophenol	0.25	0.073	29.2	0.25	0.096	38.4	27.2	35	25-125	
Pyridine	0.25	0.086	34.4	0.25	0.101	40.4	16	35	6-112	

QC Type: MS and MSD

QC Sample ID: 09030131.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,4-Dichlorobenzene	BRL	0.25	0.147	58.8						24-134	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : TCLP Semivolatiles

Method : SW-846 8270D

Reporting Units : mg/L

QC Batch ID : Qb09031105

Created Date : 03/11/09

Created By : Mli

Samples in This QC Batch : 09030051.03

QC Type: MS and MSD

QC Sample ID: 09030131.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,4,5-Trichlorophenol	BRL	0.25	0.174	69.6						6-115	
2,4,6-Trichlorophenol	BRL	0.25	0.14	56						40-138	
2,4-Dinitrotoluene	BRL	0.25	0.17	68						32-114	
2-Methylphenol	BRL	0.25	0.153	61.2						6-132	
3- & 4-Methylphenols	BRL	0.5	0.301	60.2						29-132	
Hexachlorobenzene	BRL	0.25	0.124	49.6						44-142	
Hexachlorobutadiene	BRL	0.25	0.124	49.6						20-124	
Hexachloroethane	BRL	0.25	0.157	62.8						14-136	
Nitrobenzene	BRL	0.25	0.179	71.6						38-146	
Pentachlorophenol	BRL	0.25	0.126	50.4						25-125	
Pyridine	BRL	0.25	0.055	22						6-112	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : TCLP VOC Method : SW-846 8260B Reporting Units : mg/L

QC Batch ID : Qb09031108 Created Date : 03/10/09 Created By : Whuimei

Samples in This QC Batch : 09030051.03

Sample Preparation : PB09031018 Prep Method : SW-846 5030C Prep Date : 03/10/09 11:50 Prep By : Whuimei
TCLP Prep : PB09031006 Prep Method : SW-846 1311 Prep Date : 03/09/09 16:25 Prep By : Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
1,1-Dichloroethylene	75-35-4	BRL	mg/L	1	0.13	
1,2-Dichloroethane	107-06-2	BRL	mg/L	1	0.13	
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.15	
Benzene	71-43-2	BRL	mg/L	1	0.13	
Carbon tetrachloride	56-23-5	BRL	mg/L	1	0.13	
Chlorobenzene	108-90-7	BRL	mg/L	1	0.15	
Chloroform	67-66-3	BRL	mg/L	1	0.13	
MEK	78-93-3	BRL	mg/L	1	0.13	
Tetrachloroethylene	127-18-4	BRL	mg/L	1	0.16	
Trichloroethylene	79-01-6	BRL	mg/L	1	0.13	
Vinyl Chloride	75-01-4	BRL	mg/L	1	0.1	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,1-Dichloroethylene	0.5	0.573	115	0.5	0.537	107	6.5	25	70-130	
Benzene	0.5	0.565	113	0.5	0.543	109	4	25	70-130	
Chlorobenzene	0.5	0.522	104	0.5	0.491	98.2	6.1	25	70-130	
MEK	0.5	0.604	121	0.5	0.546	109	10.1	35	70-130	
Tetrachloroethylene	0.5	0.507	101	0.5	0.498	99.6	1.8	25	70-130	
Trichloroethylene	0.5	0.553	111	0.5	0.517	103	6.7	25	70-130	

QC Type: MS and MSD

QC Sample ID: 09030112.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,1-Dichloroethylene	BRL	0.5	0.494	98.8						70-130	
Benzene	BRL	0.5	0.522	104						70-130	
Chlorobenzene	BRL	0.5	0.483	96.6						70-130	
MEK	0.862	0.5	1.38	104						70-130	
Trichloroethylene	BRL	0.5	0.506	101						70-130	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : TCLP Herbicides

Method : SW-846 8151A

Reporting Units : ug/L

QC Batch ID : Qb09031109

Created Date : 03/11/09

Created By : Psaraiya

Samples in This QC Batch : 09030051.02

Extraction : PB09030907

Prep Method : SW-846 8151A

Prep Date : 03/09/09 08:50 Prep By : Lwang

TCLP Prep : PB09030505

Prep Method : SW-846 1311

Prep Date : 03/04/09 16:55 Prep By : Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
2,4,5-TP		BRL	ug/L	1	25	
2,4-D	94-75-7	BRL	ug/L	1	25	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
2,4,5-TP	50	48.7	97.4	50	48.3	96.6	0.8	35	35-128	
2,4-D	50	45.5	91	50	45.2	90.4	0.7	35	29-124	

QC Type: MS and MSD

QC Sample ID: 09030051.02

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,4,5-TP	BRL	50	50.2	100						35-125	
2,4-D	BRL	50	48.5	97						29-124	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : TCLP Pesticides

Method : SW-846 8081A

Reporting Units : ug/L

QC Batch ID : Qb09031138

Created Date : 03/11/09

Created By : Psaraiya

Samples in This QC Batch : 09030051.03

Extraction : PB09031022

Prep Method : SW-846 3510C

Prep Date : 03/10/09 14:00 **Prep By :** Lwang

TCLP Prep : PB09031006

Prep Method : SW-846 1311

Prep Date : 03/09/09 16:25 **Prep By :** Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Chlordane	57-74-9	BRL	ug/L	1	25	
Endrin	72-20-8	BRL	ug/L	1	2.5	
g-BHC	58-89-9	BRL	ug/L	1	2.5	
Heptachlor	76-44-8	BRL	ug/L	1	2.5	
Heptachlor epoxide	1027-57-3	BRL	ug/L	1	2.5	
Methoxychlor	72-43-5	BRL	ug/L	1	2.5	
Toxaphene	8001-35-2	BRL	ug/L	1	25	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Endrin	5	5.26	105	5	5.39	108	2.4	25	50-130	
g-BHC	5	4.91	98.2	5	5.01	100	2	25	50-130	
Heptachlor	5	3.2	64	5	3.28	65.6	2.5	25	50-130	
Heptachlor epoxide	5	5.05	101	5	5.19	104	2.7	25	50-130	
Methoxychlor	5	6.05	121	5	5.84	117	3.5	25	50-130	

QC Type: MS and MSD

QC Sample ID: 09030051.03

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Endrin	BRL	5	6.33	127						40-140	
g-BHC	BRL	5	5.81	116						40-140	
Heptachlor	BRL	5	4.48	89.6						40-140	
Heptachlor epoxide	BRL	5	6.18	124						40-140	
Methoxychlor	BRL	5	7.4	148						40-140	M1

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09030051

Date : 3/12/2009

Analysis : TCLP Herbicides Method : SW-846 8151A Reporting Units : ug/L

QC Batch ID : Qb09031201 Created Date : 03/12/09 Created By : Psaraiya

Samples in This QC Batch : 09030051.03

Extraction : PB09031104 Prep Method : SW-846 8151A Prep Date : 03/11/09 08:00 Prep By : Lwang
TCLP Prep : PB09031006 Prep Method : SW-846 1311 Prep Date : 03/09/09 16:25 Prep By : Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
2,4,5-TP		BRL	ug/L	1	25	
2,4-D	94-75-7	BRL	ug/L	1	25	

QC Type: LCS and LCSD


Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
2,4,5-TP	50	47.6	95.2	50	47.1	94.2	1.1	35	35-128	
2,4-D	50	44.9	89.8	50	44.1	88.2	1.8	35	29-124	

QC Type: MS and MSD

QC Sample ID: 09030051.03

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,4,5-TP	BRL	50	52.6	105						35-125	
2,4-D	BRL	50	50.5	101						29-124	

Refer to the Definition page for terms.

 10100 East Fwy (I-10) Ste. 100 Houston, TX 77029 713-453-6060 1-877-478-6060 Toll Free 713-453-6091 Fax ablabs.com		1. REPORT TO: Company: <u>NALCO COMPANY</u> Address: <u>7705 HIGHWAY 98A</u> <u>SUGARLAND TX 77478</u> Contact: <u>BILL FRITSCH</u> Phone: <u>713-59281-263-7266</u> Fax: <input type="checkbox"/> <u>281-263-7276</u> E-mail: <input type="checkbox"/> <u>bfritsch@nalco.com</u>		2. INVOICE TO: Company: <u>Same</u> Address: _____ Contact: _____ Phone: _____ Fax: <input type="checkbox"/> _____ E-mail: <input type="checkbox"/> _____		3. PO # _____ 4. Turnaround Time (Business Days) <input type="checkbox"/> 1 Day* <input type="checkbox"/> Other <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days* *Surcharge applies <input checked="" type="checkbox"/> 7 Days - Standard	
		A&B JOB ID # <u>09030051</u> 5. Project # _____		6. Project Name/Location <u>SAN JACINTO COLLEGE DISTRICT - SOUTH TESS & CENTRAL TESS</u>		13. Containers _____ 14. Preservatives** _____ 15. PH-Lab Only _____ 16. PH-Lab Only _____ 17. Analyses/Methods <u>XRCI-TCLP</u>	
7. Reporting Requirement: <input type="checkbox"/> TRRP Limits only <input type="checkbox"/> TRRP Rpt. Package <input type="checkbox"/> See Attached <input type="checkbox"/> Standard Level II		8. Sampler's Name & Company (PLEASE PRINT) <u>Bill Fritsch NALCO COMPANY</u>		Sampler's Signature & Date <u>Bill Fritsch 3-3-09</u>		18. REMARKS <u>Additional sample</u> <u>09030051.02</u>	
LAB USE ONLY	9. Sample ID and Description <u>OFFICES - C3 & C4</u> <u>DUPLICATE SAMPLES</u>		10. Sampling Date: <u>3.3-09</u> Time: <u>1300</u>		11. Matrix Comp. <u>XX</u> Grab <u>XX</u> Water <u>XX</u> Soil <u>XX</u> Sludge <u>XX</u> Oil _____ Air _____ Other _____		No. of Containers _____
19. RELINQUISHED BY <u>Bill Fritsch</u>		DATE <u>3-3-09</u> TIME <u>4:00pm</u>		20. RECEIVED BY <u>[Signature]</u>		DATE <u>3/4/09</u> TIME <u>11:00</u>	
21. RECEIVED BY LABORATORY <u>[Signature]</u>		22. KNOWN HAZARDS/COMMENTS <u>No Known Hazards</u>		Temperature: _____ °C Intact: Y or N Initials _____		A&B cannot accept verbal changes Please FAX written changes to 713-453-6091 Samples will be disposed of after 30 days	
*Containers: VOA - 40 ml vial A/G - Amber/Glass 1 Liter 4 oz/8 oz - glass wide mouth P/O - Plastic/other _____		**Preservatives C - Cool H - HCl N - HNO ₃ S - H ₂ SO ₄ OH - NaOH T - Na ₂ S ₂ O ₃ X - Other _____		METHOD OF SHIPMENT _____ BILL OF LADING/TRACKING # _____			
LAB USE ONLY SAMPLING _____ RENTAL _____ P/U _____							

 10100 East Fwy (I-10) Ste. 100 Houston, TX 77029 713-453-6060 1-877-478-6060 Toll Free 713-453-6091 Fax ablabs.com		1. REPORT TO: Company: <u>NALCO COMPANY</u> Address: <u>7705 Highway 90A</u> <u>SUGARLAND TX 77478</u> Contact: <u>BILL FRITSCHER</u> Phone: <u>281-263-7261</u> Fax: <input type="checkbox"/> <u>281-263-7276</u> E-mail: <input type="checkbox"/> <u>bfritsche@nalco.com</u>		2. INVOICE TO: Company: _____ Address: _____ Contact: _____ Phone: _____ Fax: <input type="checkbox"/> _____ E-mail: <input type="checkbox"/> _____		3. PO # _____ 4. Turnaround Time (Business Days) <input type="checkbox"/> 1 Day* <input type="checkbox"/> Other <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days* *Surcharge applies <input checked="" type="checkbox"/> 7 Days - Standard					
		A&B JOB ID # <u>04030125 DRU</u> 5. Project # _____									
6. Project Name/Location <u>SAN JACINTO COLLEGE DISTRICT - South TES</u> <u>1 CENTRAL TES</u>											
7. Reporting Requirement: <input type="checkbox"/> TRRP Limits only <input type="checkbox"/> TRRP Rpt. Package <input type="checkbox"/> See Attached <input type="checkbox"/> Standard Level II											
8. Sampler's Name & Company (PLEASE PRINT) Sampler's Signature & Date <u>BILL FRITSCHER</u> <u>Bill Fritsch</u> <u>3-6-09</u>											
LAB USE ONLY	9. Sample ID and Description <u>STES-</u> <u>STES-</u> <u>DUPLICATE SAMPLES</u> <u>53, 54, 55, 56</u>		10. Sampling Date Time <u>3-6-09</u> <u>0800</u>		11. 12. Matrix Comp. Grab Water Soil Sludge Oil Air Other _____		No. of Containers	13. 14. Containers* 15. Preservatives** 16. PH-Lab Only 17. <u>BCI-TCLP</u>		18. REMARKS <u>Additional samples for</u> <u>04030051.01</u>	
19. RELINQUISHED BY 1 <u>Bill Fritsch</u> DATE <u>3-6-09</u> TIME <u>1300</u> 2 _____ 3 _____			20. RECEIVED BY _____ 21. RECEIVED BY LABORATORY <u>[Signature]</u> DATE <u>3/6/09</u> TIME <u>13:00</u>			22. KNOWN HAZARDS/COMMENTS <u>No Known Hazards</u> Temperature: <u>19.5</u> °C Intact: <input checked="" type="checkbox"/> Y or N Initials: <u>[Signature]</u>					
*Containers: VOA - 40 ml vial A/G - Amber/Glass 1 Liter 4 oz/8 oz - glass wide mouth P/O - Plastic/other _____			**Preservatives: C - Cool H - HCl N - HNO ₃ S - H ₂ SO ₄ OH - NaOH T - Na ₂ S ₂ O ₃ X - Other _____			A&B cannot accept verbal changes Please FAX written changes to 713-453-6091 Samples will be disposed of after 30 days					
METHOD OF SHIPMENT _____			BILL OF LADING/TRACKING # _____								
LAB USE ONLY SAMPLING _____ RENTAL _____ P/U _____											

Page 28 of 29



Sample Condition Checklist

Date : 03/12/09

A&B JobID : 09030051		Date Received : 03/03/2009		Time Received : 3:45PM								
Client Name : Nalco Company												
Temperature : 8.5°C		Sample pH : N/A										
	Check Points				Yes	No						
1.	Cooler seal present and signed.				N/A							
2.	Sample(s) in a cooler.				X							
3.	If yes, ice in cooler.				X							
4.	Sample(s) received with chain-of-custody.				X							
5.	C-O-C signed and dated.				X							
6.	Sample(s) received with signed sample custody seal.				N/A							
7.	Sample containers arrived intact. (If no comment).				X							
8.	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Sample(s) were received in appropriate container(s).				X							
10.	Sample(s) were received with proper preservative											
11.	All samples were logged or labeled.				X							
12.	Sample ID labels match C-O-C ID's				X							
13.	Bottle count on C-O-C matches bottles found.				X							
14.	Sample volume is sufficient for analyses requested.					X						
15.	Samples were received within the hold time.				X							
16.	VOA vials completely filled.				N/A							
17.	Sample accepted.				X							
Comments : Include actions taken to resolve discrepancies/problem: Sample cooling initiated in the field. Not enough sample to run all analysis, per client more sample will be dropped off during the week. MG 3/3/09 Additional sample was received for sample CTES-SJCD (our #.02) 3/4/09. For sample STES-SJCD (our #.01) client said he would bring in more sample at a later date client is aware TCLP analysis will not be reported until more sample is received. 3/4/09 MG Client drpped off more sample for STES- SJCD (our #.01) 3/6/09 MG.												

Received by : Kisom

Check in by/date : Kisom / 03/03/2009

Phone : 713-453-6060

www.ablabs.com

3407

TAS Commercial Concrete



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/29/2009

Dear **Mike Peterson**

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3407

Expiration Date 6/29/2011

Generator: TAS Commercial Concrete

Address: 19319 Oil Center Blvd
Houston, TX 77073

Waste Information

Name of Waste: Waste unused amines

TCEQ Waste Code #: CESQ2191

Container Type:

Detailed Description of Process Generating Waste:

Unused amines used to activate 2 part coatings used in the concrete construction process

Color: Varies-Brown-Amber **Odor:** Heavey Amine **pH:** 10-11.5

Physical State:

Incompatibilities: See section 10; It has extensive list

Safety Related Data/Special Handling:

Level B PPE - Respirator required if handling

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000568



DB/MM
DL
Houston

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: TAS Commercial Concrete
Address: 19319 Oil Center Blvd
City: Houston State: TX Zip: 77073
Contact: Mike Pederson Title: _____
Phone Number: 281-615-6290 Fax Number: _____
24/hr Phone Number: 281-615-6290
US EPA ID No: TXCESQG
State ID No: CESQG SIC Code: _____

SECTION 2: Billing Information - ☒ Same as Above

Company: _____
Address: _____
City: _____ State: _____ Zip: _____
Contact: _____ Title: _____
Phone Number: _____ Fax Number: _____

SECTION 3: General Description of the Waste

Name of Waste: Waste unused amines.
Detailed Description of Process Generating Waste: _____

Unused amines used to activate 2 part coatings used in the concrete constuction process

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination
Color: Varies-Brown-Amber Odor: Heavey Amine

Specific Gravity (water=1): .95-1.1 Density: 8.3 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No
Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☐ One-Time

Quantity: 1-5 ~~5-10~~

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009

☐ D010 ☐ D011

Na

☐ Yes ☒ No

Na

☐ Yes ☒ No

No

CESQ2191

Class: 8 **UN/NA:** 2735 **PG :** III **RQ:**

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>200		10-11.5		0 <u>mg/l</u>		0 <u>mg/l</u>		0 <u>%</u>	
Oil & Grease		TOC		Zinc		Copper		Nickel	
Na	<u>mg/l</u>	Na	<u>mg/l</u>	Na	<u>mg/l</u>	Na	<u>mg/l</u>	Na	<u>mg/l</u>

SECTION 4: Physical and Chemical Data

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level B PPE- Respirator required if handling

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. MSDS

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

See section 10***** Has extensive list

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals: Na-None in process

TCLP Volatiles: Na-None in process

TCLP Semi-Volatiles: Na-None in process

Reactivity: Na-None in process

Corrosivity: Na-None in process

Ignitability: Na-None in process

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES

☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
- Cadmium: 0.2 mg/L
 - Chromium: 8.9 mg/L
 - Copper: 4.9 mg/L
 - Nickel: 37.5 mg/L
- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
- ☐ Metals Subcategory
 - ☐ Oils Subcategory
 - ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: 6/24/2009

Printed Name/Title: _____

Mike Peterson

YARD Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 6-29-09

☒ Approved

☐ Rejected

Approval Number: _____



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

\$95/dm
\$70/hr Trans

2. Contamination Limits (maximum limit before surcharges apply):

None

3. Surcharge Pricing:

Call Sales person if needed

4. Special Testing Requirements:

None

5. Treatment and Handling Protocol:

, Use caution when opening the drum- Strong Vapors Class 1 to LANDFILL

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☒ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

Na

8. Management for Product Recovered/Recycled (if applicable):

NA

MATERIAL SAFETY DATA SHEET

SECTION 1 - MATERIAL IDENTIFICATION

PRODUCT NAMES

EP5345 - Activator
EP5347 - Activator
EP7120 - Activator
EP7140 - Activator
EP9053 - Activator

MSDS REVISION NUMBER 9

FROM Eager Polymers
3350 W. 48th Place
Chicago, IL 60632
www.eagerplastics.com/msds.htm

Back to our homepage at: www.eagerplastics.com

TELEPHONE NUMBER 773-927-3484

REVISION DATE APRIL 2008

EMERGENCY OVERVIEW

HMIS/NFPA HEALTH 3 FLAMMABILITY 1 REACTIVITY 0

PHYSICAL FORM Mobile liquid

COLOR Amber

ODOR Ammoniacal

HAZARDS Harmful if in contact with skin. Harmful if
swallowed. Corrosive to eyes. Corrosive to skin.
Severe eye irritant. Severe skin irritant. May
cause respiratory sensitization. May cause skin
sensitization.

EXTINGUISHING MEDIA Ignition will give rise to a Class B fire. In
case of large fire use: alcohol foam, water
spray. In case of small fire use: carbon dioxide
(CO₂), dry chemical, dry sand or limestone.

C.A.S. CHEMICAL NAME Mixture

SYNONYMS None

CHEMICAL FAMILY Aliphatic Amines

EMPIRICAL FORMULA Mixture

INTENDED USE Curing Agent, Epoxy

REVISION NOTES Updated European Information Updated
health hazard information. TARGET ORGANS
SIGNS AND SYMPTOMS OF EXPOSURE (Acute
effects) SIGNS AND SYMPTOMS OF EXPOSURE
(Possible Longer Term Effects) EEC RISK
PHRASES EEC SAFETY PHRASES
CHRONIC/SUBCHRONIC DATA Updated handling
and storage information.

SECTION 2 - INGREDIENTS

Num	%	CAS Number and Chemical Name				
1.	>30.00	80-05-7	PHENOL, 4,4'-(1-METHYLETHYLIDENE) BIS-			
2.	<70.00	111-40-0	DIETHYLENETRIAMINE (DETA)			

OSHA (ACGIH) EXPOSURE LIMITS						
	TWA		STEL		CEILING	
	ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
1.	OSHA N/E	N/E	N/E	N/E	N/E	N/E
	ACGIH N/E	N/E	N/E	N/E	N/E	N/E
2.	OSHA 1.0000	4.0000	N/E	N/E	N/E	N/E
	ACGIH 1.0000	4.2000	N/E	N/E	N/E	N/E

Skin

N/E = Not Established.

SECTION 3 - HEALTH HAZARDS

ROUTES OF EXPOSURE

Eye Contact
Skin Contact
Ingestion
Skin Absorption

EXPOSURE STANDARDS

See Section 2 for exposure standards on ingredients. Maintain air contaminant concentrations in the workplace at the lowest feasible levels.

HEALTH HAZARDS

Harmful if in contact with skin.
Harmful if swallowed.
Corrosive to eyes.
Corrosive to skin.
Severe eye irritant.
Severe skin irritant.
May cause respiratory sensitization.
May cause skin sensitization.

TARGET ORGANS

Eye
Skin
Respiratory system

SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)

Burns of the eye may cause blindness. Contact of undiluted product with the eyes or skin quickly causes severe irritation and pain and may cause burns, necrosis and permanent injury.

Inhalation of aerosols and mists may severely damage contacted tissue and produce scarring.

Product is absorbed through the skin and may cause malaise, discomfort, injury and death unless treated promptly.

SIGNS AND SYMPTOMS OF EXPOSURE (Possible Longer Term Effects)

This substance may cause respiratory sensitization and chronic lung toxicity to exposed workers.

Repeated and/or prolonged exposure may cause allergic reaction/sensitization.

Repeated and/or prolonged exposures may result in: adverse respiratory effects (such as cough, tightness of chest or shortness of breath), adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as rash, irritation or corrosion).

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Asthma
Chronic respiratory disease (e.g. Bronchitis, Emphysema)
Eye disease
Skin disorders and Allergies

CARCINOGENS UNDER OSHA, ACGIH, NTP, IARC, OTHER

This product contains no carcinogens in concentrations of 0.1 percent or greater.

SECTION 4 - FIRST AID

EYE CONTACT

Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice.

SKIN CONTACT

Remove product and immediately flush affected area with water for at least 15 minutes. Remove contaminated clothing and shoes. Destroy contaminated leather apparel. Cover the affected area with a sterile dressing or clean sheeting and transport for medical care. Do not apply greases or ointments. Control shock, if present. Launder contaminated clothing prior to reuse.

INHALATION

Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth-to-mouth). Supplemental oxygen may be indicated. Prevent aspiration of vomit. Turn victim's head to the side. Seek medical advice.

INGESTION

In the event of ingestion, administer 3-4 glasses of milk or water. Do not induce vomiting. Seek medical advice.

SECTION 5 - FIRE AND EXPLOSION DATA

FLASH POINT (closed cup) 102.78 C (217.00 F)

UPPER EXPLOSION LIMIT (UEL) No Data

LOWER EXPLOSION LIMIT (LEL) No Data

AUTOIGNITION TEMPERATURE No Data

FIRE HAZARD CLASSIFICATION (OSHA/NFPA)
Class IIIB

EXTINGUISHING MEDIA

Ignition will give rise to a Class B fire. In case of large fire use: water spray, alcohol foam. In case of small fire use: carbon dioxide (CO2), dry chemical, dry sand or limestone.

SPECIAL FIRE FIGHTING PROCEDURES

A face shield should be worn. Firefighters should wear butyl rubber boots, gloves, and body suit and a self-contained breathing apparatus.

Retain expended liquids from fire fighting for later disposal.

UNUSUAL FIRE AND EXPLOSION HAZARDS

May generate toxic or irritating combustion products.

Contact of liquid with skin must be prevented.

Sudden reaction and fire may result if product is mixed with an oxidizing agent.

May generate carbon monoxide gas.

May generate toxic nitrogen oxide gases. May generate ammonia gas.

Personnel in vicinity and downwind should be evacuated.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES (Removal of ignition sources, diking etc)

Stop the leak, if possible. Reduce vapor spreading with a water spray. Shut off or remove all ignition sources. Construct a dike to prevent spreading (includes molten liquids until they freeze).

CLEAN-UP PROCEDURES

If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in an appropriate chemical waste container. Transfer to containers by suction, preparatory for later disposal. Flush area with water spray. Clean-up personnel must be equipped with self contained breathing apparatus and butyl rubber protective clothing. For large spills, recover spilled material with a vacuum truck.

OTHER EMERGENCY ADVICE

Wear protective clothing, boots, gloves, and eye protection.

SECTION 7 - HANDLING AND STORAGE

STORAGE

Keep away from: acids, oxidizers. Keep in cool, dry, ventilated storage and in closed containers. Store in steel containers preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks. Do not store in reactive metal containers.

HANDLING

Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well ventilated work space. When handling, do not eat, drink, or smoke. Avoid using in any spray application without strict conformance to all applicable electrical codes and the OSHA limit for maximum allowable airborne concentrations.

OTHER PRECAUTIONS

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations (e.g. OSHA). Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Cancer-causing nitrosamines could be formed.

SECTION 8 - PERSONAL PROTECTION / EXPOSURE CONTROLS

EYE PROTECTION

Full face shield with goggles underneath.

HAND PROTECTION

Neoprene rubber gloves. Impermeable gloves. Cuffed butyl rubber gloves. Nitrile rubber gloves.

RESPIRATORY PROTECTION

Not required under normal conditions in a well-ventilated workplace. Under the following conditions a respirator may be required: when product vapor concentration exceeds the limits listed in section 2, during repair and cleaning of equipment, during transfer or discharge of the product, sampling, spray applications. Types of respirators that may be used include the following: Chemical Cartridge Respirator with face piece to protect against the organic vapor, Supplied air respirator with full face piece, Self-contained breathing apparatus in pressure demand mode. In emergency conditions use a self-contained breathing apparatus in pressure demand mode.

PROTECTIVE CLOTHING

Impervious clothing. Slicker Suit. Rubber boots. Full rubber suit (rain gear). Butyl or latex protective clothing.

ENGINEERING CONTROLS

Maintain air concentrations in work spaces in accord with standards outlined in Sections 2 and 3.

WORK AND HYGIENIC PRACTICES

Provide readily accessible eye wash stations and safety showers. Wash at the end of each workshift and before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Discard contaminated leather articles. Launder or discard contaminated clothing.

SECTION 9 - TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	Mobile liquid
COLOR	Amber
ODOR	Ammoniacal
pH	ALKALINE
VAPOR PRESSURE (mm Hg at 21C (70F))	<0.09774
VAPOR DENSITY (Air = 1)	No Data
BOILING POINT	>200.00 C (>392.00 F)
MELTING POINT	No Data
SOLUBILITY IN WATER	1.40%
SPECIFIC GRAVITY (Water = 1)	1.03
MOLECULAR WEIGHT	Mixture

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY

Stable

CONDITIONS TO AVOID (if unstable)

Not applicable

INCOMPATIBILITY (Materials to Avoid)

Mineral acids (i.e. sulfuric, phosphoric, etc.). Organic acids (i.e. acetic acid, citric acid etc.). Oxidizing Agents (i.e. perchlorates, nitrates etc.). Reactive metals (i.e. sodium, calcium, zinc etc.). Sodium or Calcium Hypochlorite. CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Materials reactive with hydroxyl compounds. Nitrites, nitrosating agents. A reaction accompanied by large heat release occurs when the product is mixed with acids. Heat generated may be sufficient to cause vigorous boiling creating a hazard due to splashing or splattering of hot material.

HAZARDOUS DECOMPOSITION PRODUCTS (from burning, heating, or reaction with other materials).

Nitrogen oxide can react with water vapors to form corrosive nitric acid (TLV=2 ppm). Carbon Monoxide in a fire. Carbon Dioxide in a fire. Ammonia when heated. Nitrogen Oxides in a fire. Irritating and toxic fumes at elevated temperatures. Nitric acid in a fire. nitrosamines. Aldehydes. The oxides of nitrogen gases (except nitrous oxide) emitted on decomposition are highly toxic.

HAZARDOUS POLYMERIZATION

Will not occur

CONDITIONS TO AVOID (if polymerization may occur)

Not applicable

SECTION 11 - TOXICOLOGICAL PROPERTIES

ACUTE ORAL TOXICITY (LD50, RAT)

1080.00 mg/kg (Estimate)

ACUTE DERMAL TOXICITY (LD50, RABBIT)

1090.00 mg/kg (Estimate)

ACUTE INHALATION TOXICITY (LC50, RAT)

No Data

OTHER DATA

Data available on components only.

OTHER ACUTE EFFECTS

No Data

IRRITATION EFFECTS DATA

Irritation data based on estimates.

CHRONIC/SUBCHRONIC DATA

Component has caused skin and respiratory sensitization in humans.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY

No Data

ENVIRONMENTAL FATE

No Data

ADDITIONAL INFORMATION

Waste from this product may present long term environmental hazards, thus landfill disposal must be considered less acceptable than incineration..

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Comply with all Federal, State and Local Regulations.

SECTION 14 - TRANSPORT INFORMATION

DOT NON-BULK SHIPPING NAME

Amines, liquid, corrosive, n.o.s.
(Diethylenetriamine) // 8 // UN2735 //
PG III

DOT BULK SHIPPING NAME

Refer to Bill of Lading.

IMO SHIPPING DATA

Refer to Bill of Lading.

ICAO/IATA SHIPPING DATA

Amines, liquid, corrosive, n.o.s.
(Diethylenetriamine) // 8 // UN2735 //
III // Shipment per 49 CFR 171.11

SECTION 15 - REGULATORY INFORMATION

US FEDERAL REGULATIONS

TOXIC SUBSTANCES CONTROL ACT (TSCA) -

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

OSHA Hazard Communication Standard (29CFR1910.1200) hazard class(es)
Corrosive. Sensitizer.

EPA SARA Title III Section 312 (40CFR370) hazard class
Immediate Health Hazard. Delayed Health Hazard.

EPA SARA Title III Section 313 (40CFR372) toxic chemicals above "de minimis" level are
PHENOL, 4,4'-(1-METHYLETHYLIDENE) BIS-

STATE REGULATIONS

PROPOSITION 65 SUBSTANCES (component(s) known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986")
None

NEW JERSEY TRADE SECRET REGISTRY NUMBER(S)
None

SECTION 16 - INTERNATIONAL REGULATIONS

CANADA

DSL

Included on Inventory.

WHMIS HAZARD CLASSIFICATION

Class D Division 2A, Class D Division 2B, Class E Corrosive,

WHMIS TRADE SECRET REGISTRY NUMBER(S)

None

WHMIS HAZARDOUS INGREDIENTS

DIETHYLENETRIAMINE (DETA)

PHENOL, 4,4'-(1-METHYLETHYLIDENE) BIS-

WHMIS SYMBOLS

Test tube/hand, Stylized T,

EUROPEAN ECONOMIC COMMUNITY (EEC)

EINECS/ELINCS MASTER INVENTORY

Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.

EEC SYMBOL

CORROSIVE (C)

EEC RISK (R) PHRASES

May cause sensitization by inhalation and skin contact (R42/43). Causes burns (R34).

EEC SAFETY PHRASES

Do not breathe vapors (S23V). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26). Wear suitable protective clothing, gloves and

eye/face protection (S36/37/39). In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45).

AUSTRALIA

AICS

Included on Inventory.

JAPAN MITI

Included on Inventory.

PHILIPPINES PICCS

Included on Inventory.

KOREA ECL

Included on Inventory.

CHINA SEPA

Included on Inventory.

END OF DOCUMENT

3408

TAS Commercial Concrete



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/29/2009

Dear Mike Peterson

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3408

Expiration Date 6/29/2011

Generator: TAS Commercial Concrete

Address: 19319 Oil Center Blvd
Houston, TX 77073

Waste Information

Name of Waste: Recyclable Oily water

TCEQ Waste Code #: Recyclabl

Container Type:

Detailed Description of Process Generating Waste:

Oily water and sludge from cleaning wash bays

Color: Black

Odor: Oil

pH: 5-9

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level C PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000585



DB/ MM
Recycle
Houston

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
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SECTION 1: Generator Information

Company: TAS Commercial Concrete
Address: 19319 Oil Center Blvd
City: Houston State: TX Zip: 77073
Contact: Mike Pederson Title:
Phone Number: 281-615-6290 Fax Number:
24/hr Phone Number: 281-615-6290
US EPA ID No: TXCESQG
State ID No: CESQG SIC Code:

SECTION 2: Billing Information - ☒ Same as Above

Company:
Address:
City: State: Zip:
Contact: Title:
Phone Number: Fax Number:

SECTION 3: General Description of the Waste

Name of Waste: Recycleable Oily Water
Detailed Description of Process Generating Waste:

Oily water and sludge from cleaning wash bays

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination
Color: Black Odor: Oil

Specific Gravity (water=1): .9-1 Density: 8.3 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☐ One-Time

Quantity: 1-5

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Na

☐ Yes ☒ No

Na

☐ Yes ☒ No

No

Recycleable

Class: Na **UN/NA:** Na **PG :** Na **RQ:** Na

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level C PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals: Na-None in process

TCLP Volatiles: Na-None in process

TCLP Semi-Volatiles: Na-None in process

Reactivity: Na-None in process

Corrosivity: Na-None in process

Ignitability: Na-None in process

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☒ YES

☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☒ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
- Cadmium: 0.2 mg/L
 - Chromium: 8.9 mg/L
 - Copper: 4.9 mg/L
 - Nickel: 37.5 mg/L
- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
- ☐ Metals Subcategory
 - ☒ Oils Subcategory
 - ☐ Organics Subcategory

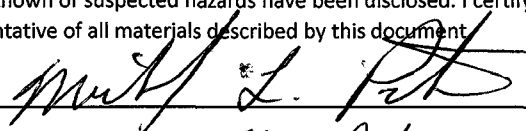
SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:  Date: 6/24/2009

Printed Name/Title: Mike Peterson Mike Peterson YARD Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: 

Date: 6-29-09

☒ Approved

☐ Rejected

Approval Number: _____



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

.40/gal for bulk loads <20% solids
\$70/hr Vac truck
\$110/hr Air Machine

2. Contamination Limits (maximum limit before surcharges apply):

oil fails chlor-d-tect

3. Surcharge Pricing:

Call Sales person if needed

4. Special Testing Requirements:

Chlor-d-tect on oil phase, flash, phenol

5. Treatment and Handling Protocol:

Oily Water Treatment

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☒ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

Used oil tests

8. Management for Product Recovered/Recycled (if applicable):

Sell in used oil Market

3388

Soltex c/o Lincoln men



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Material / Product Approval Letter

Date 6/19/2009

Dear Tom Haver/Ellie MacNair 281-587

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3388

Expiration Date 6/19/2011

Producer: Soltex c/o Lindon Manufacturing
Address: 7614 Wallisville Rd.
Houston, TX 77029

Material / Product Information

Name of Material / Product Naptel - flush and partial
Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

flush oil and unused products from hydrocarbon manufacturing processes

Color: pale brown

Odor: none

pH: solid

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000593


**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

JB/MM
Produce it
Houston

SECTION 1: Generator Information

Company: Soltex c/o Lindon Manufacturing
Address: 7614 Wallisville Rd.
City, State, Zip: Houston TX 77029
Contact: Lincoln Murphy Title:
Phone No: (713) 672-4450 Fax:
24 / HR Phone:
U.S EPA I.D No: CESQG
State I.D: TXCESQG SIC Code

SECTION 2: Billing Information

Company: Soltex
Address: 3707 FM 1960 West - Ste. 560
City, State, Zip: ~~Beytown TX 77630~~ Houston Texas 77068
Contact: Tom Haver Ellie Macnair Title:
Phone No: (281) 630-7726 281-587-0900 Fax: 281-587-0209

SECTION 3: General Description of the Waste

Name of Waste: Napel - flush and partial

Detailed Description of the Process Generating Waste:

flush oil and unused products from hydrocarbon manufacturing processes

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: pale brown Odor: none

Specific Gravity (Water=1): 8-1.2 Density: 8 lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Layers: ☒ Single-Phase ☐ Multi-Phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size: 55gal

Number Of Units:

Is this a USEPA "Hazardous Waste" per 40 CFR 261.3? ☐ Yes ☒ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", is it: ☐ D001 ☐ D002 ☐ D003

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007
☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristics for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code No : Product

Proper U.S. State Waste Code No : Non-RCRA/Non DOT regulated recyclable hydrocarbon

Class : na UN/NA : na PG : na RQ : na

Flash Point >150	pH solid	Reactive Sulfides na mg/l	Reactive Cyanides na mg/l	Solids 100 %
Oil and Grease >1000 mg/l	TOC >1500 mg/l	Zinc na mg/l	Copper na mg/l	Nickel na mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Naptel 310 (butene, homopolymer)	0.100 1.00	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDSs

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : ☒
TCLP Volatiles : ☒
TCLP Semi-Volatiles : ☒
Reactivity : ☒

Corrosivity : X
Ignitability : X

SECTION 9: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☐ YES ☒ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations

☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L

Chromium: 8.8 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 10: Additional Instruction

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:

Eleanor S. MacNair

Date:

6/18/09

Printed Name / Title: Eleanor S. MacNair / MacNair

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer:

Robert Thye

Process Facility Information:

\$35/dm + trans + FSC

Date: 6-19-09

Status: Approved

Rejected

Approval Number:

3388



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$35/dm + trans + FSC

2. Contamination Limit (maximum limit before surcharges apply):

spec compatible w/product MSDS
≤ .5 % solids

3. Surcharge Pricing:

none

4. Special Testing Requirements:

chlor-detect, Flash, SG
test compatibility w/base oil, black oil
Call Matt/Joy w/question

5. Treatment and Handling Protocol:

blend according to compatibility

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

--

**SOLTEX**SYNTHETIC OILS & LUBRICANTS
OF TEXAS, INC.**SOLTEX, INC.**

3707 FM 1960 West, Suite 560

Houston, TX 77068

Phone: 281 587-0900 • Fax: 281 587-1998

www.soltexinc.com

MATERIAL SAFETY DATA SHEET**SECTION I - PRODUCT INFORMATION**

SUPPLIER: Soltex, Inc.
3707 FM1960 West, Suite 560
Houston, TX 77068

EMERGENCY TELEPHONE NUMBERS:
Business Hours: 8:30a.m. - 5:00p.m. - (281) 587-0900 (USA)
After Hours: (281) 587-0900 (USA)
CANUTEC: (613) 996-6666
CHEMTREC: 1-800-424-9300

Hazardous Material Identification System

Health	[0]
Flammability	[0]
Reactivity	[0]
Personal Protection	[A]
WHMIS Rating	[N/A]
WHMIS Controlled or Uncontrolled Product (C/U)	[U]

MANUFACTURER: Soltex, Inc. **PRODUCT CODE #** BRZ3100/BR013101

MATERIAL NAME: Naptel 310 Flooding Compound (Formerly BR 310)

MATERIAL USE: Telecom Cable Flooding Compound

SECTION II - HAZARDOUS INGREDIENTS

Hazardous Ingredients	Conc. % Wt/Wt	Toxicity Data LD ₅₀ /LC ₅₀	C.A.S. #
Polymeric hindered Phenolic Antioxidant	0.15 - 0.30	Not available	Not available

SECTION III - PHYSICAL DATA

Physical State: Gas [] Liquid [] Solid [X]

Odor and Appearance: Odorless, Pale Brown Amorphous Waxy Solid

Odor Threshold (p.p.m.): NOT AVAILABLE

Vapor Pressure (mm Hg): NOT AVAILABLE

pH: NOT AVAILABLE

Density/25°C: 0.890 Kg-Litre Typical

Vapor Density (Air = 1): NOT APPLICABLE AT AMBIENT TEMPERATURE

Evaporation Rate (n butyl acetate = 1): NOT APPLICABLE AT AMBIENT TEMPERATURE

Coefficient Of Water/Oil Distribution: NOT AVAILABLE

Boiling Point (760 mmHg): NOT AVAILABLE

Viscosity (150°C) ASTM3236: 300 cps Typical

Softening Point (R and B, ASTM - E28) 100°C Typical

SECTION IV - FIRE OR EXPLOSION HAZARD

Flammability
Yes [] No [X]

Revision Number: 5
Page 1 of 4

Revision Date: 110107

Supersedes: 020606
Product Number: Naptel 310

EPAHO109000600



S O L T E X

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Means of Extinction: CO₂, FOAM, DRY CHEMICAL.

Upper Flammability Limit: NOT AVAILABLE

Lower Flammability Limit: NOT AVAILABLE

Auto Ignition Temperature: NOT AVAILABLE

Hazardous Combustion Products: CO, CO₂

Flash Point (ASTM D92): 245°C TYPICAL

SECTION IV - FIRE OR EXPLOSION HAZARD (CONTINUED)

Explosion Data - Sensitivity to:

1) Mechanical Impact: NIL

2) Static Discharge: NIL

SECTION V - REACTIVITY DATA

Chemical Stability: If no, under which conditions:

Stable [X] NOT APPLICABLE

Unstable []

Incompatibility To
Other Substances
Yes [X] No []

If so, which ones:
STRONG OXIDIZING AGENTS

Reactivity and under what conditions: NOT APPLICABLE

Hazardous Decomposition Products: NOT APPLICABLE

SECTION VI - TOXICOLOGICAL PROPERTIES

Route of Entry:

1) Skin Contact: MAY CAUSE MILD DERMATITIS ON PROLONGED CONTACT WITH SENSITIVE OR ALLERGIC PEOPLE

2) Eye Contact: MINIMAL IRRITATION MAY OCCUR

3) Ingestion: CONSIDERED TO BE NON TOXIC

4) Skin Absorption: CONSIDERED TO BE NON TOXIC

5) Inhalation: NOT APPLICABLE AT AMBIENT TEMPERATURE. ABOVE 100°C VAPOUR MAY CAUSE HEADACHE AND/OR NAUSEA.

Toxicologically Synergistic Materials: NONE KNOWN

Effects of Acute Exposure to Material: NOT APPLICABLE

Effects of Chronic Exposure to Material: MAY CAUSE MILD DERMATITIS TO SENSITIVE OR ALLERGIC PEOPLE

Revision Number: 5

Page 2 of 4

Revision Date: 110107

Supersedes: 020606

Product Number: Naptel 310

EPAHO109000601



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3707 FM 1960 West, Suite 560

Houston, TX 77068

Phone: 281 587-0900 • Fax: 281 587-1998

www.soltexinc.com

Exposure Limit: NOT DETERMINED

Irritancy of Material: NOT APPLICABLE

Sensitization to Material: NOT APPLICABLE

Teratogenicity: NOT APPLICABLE

Carcinogenicity: NOT APPLICABLE

Mutagenicity: NOT APPLICABLE

Reproductive Effects: NOT APPLICABLE

SECTION VII - PREVENTATIVE MEASURES

Personal Protective Equipment:

SAFETY GLASSES AT AMBIENT TEMPERATURE

Engineering Controls (eg. ventilation, enclosed process, specify):

NONE REQUIRED AT AMBIENT TEMPERATURE. LOCAL VENTILATION RECOMMENDED WHEN HANDLING AT 100°C AND ABOVE

Leak and Spill Procedure:

CONTAIN LIQUID BY DYKING UNTIL SOLIDIFICATION OCCURS, SCRAPE UP, PLACE IN CONTAINER.

SECTION VII - PREVENTATIVE MEASURES (CONTINUED)

Waste Disposal:

RECLAIM. DISPOSE OF BY LICENSED AND RECOGNIZED OPERATOR.

Storage and Handling Procedures:

STORE AWAY FROM EXCESSIVE HEAT.

Special Shipping Requirements:

No special shipping requirement

Other Regulatory Controls:

SARA/TITLE III - TOXIC CHEMICALS LIST

THIS PRODUCT DOES NOT CONTAIN A TOXIC CHEMICAL FOR ROUTINE ANNUAL "TOXIC CHEMICAL RELEASE REPORTING" UNDER SEC. 313 (40 CFR 372).

TSCA INVENTORY STATUS: CHEMICAL COMPONENTS LISTED ON TSCA INVENTORY

DOMESTIC SUBSTANCE LIST: CHEMICAL COMPONENTS LIST ON THE DSL

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):

THIS PRODUCT DOES NOT CONTAIN A CHEMICAL KNOWN TO THE STATE TO CAUSE CANCER OR REPRODUCTIVE TOXICITY.

NEW JERSEY RIGHT TO KNOW LABELING INFORMATION:

Butene, homopolymer

CAS 9003-29-6

Revision Number: 5

Revision Date: 110107

Supersedes: 020606

Page 3 of 4

Product Number: Naptel 310

EPAHO109000602



S O L T E X

SYNTHETIC OILS & LUBRICANTS
OF TEXAS, INC.

SOLTEX, INC.

3707 FM 1960 West, Suite 560

Houston, TX 77068

Phone: 281 587-0900 • Fax: 281 587-1998

www.soltexinc.com

Polymeric hindered Phenolic Antioxidant

CAS not available

SECTION VIII - FIRST AID MEASURES

Specific First Aid Measures:

SKIN CONTACT: WASH WITH MILD SOAP AND WATER. LAUNDER CONTAMINATED CLOTHING PRIOR TO REUSE.
EYE CONTACT: FLUSH WITH COPIOUS QUANTITIES OF WATER FOR AT LEAST 15 MINUTES.
INGESTION: OBTAIN MEDICAL ATTENTION.
INHALATION: REMOVE TO FRESH AIR.

SECTION IX - SPECIAL NOTES

THIS MSDS REVISION HAS CHANGES IN THE FOLLOWING SECTIONS:

SECTION I - PRODUCT INFORMATION: Supplier Name, Manufacturers Name, Material Name
SECTION III - PHYSICAL DATA: Density, Softening Point, Viscosity
SECTION X - PREPARATION INFORMATION: Supplier Name, Date, Revision Number, Preparation Info, Address, Phone Number

SECTION X - PREPARATION INFORMATION

Prepared by: TECHNICAL DEPT.
Soltex, Inc.
3707 FM1960 West, Suite 560 Houston, TX 77068
Phone Number: 281 587 0900
Date: November 1, 2007 (Revision #5)

The company shall not be liable for any damages arising from the information contained on this data sheet howsoever caused, if the product in question is not employed in normal or reasonably foreseeable use or circumstances. The company shall not be liable for any indirect or consequential damages arising out of the use of the information contained on this data sheet howsoever caused.

3389

Ameniferge Woodville



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/16/2009

Dear **Jimmy Watts**

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3389

Expiration Date 6/16/2011

Generator: Ameriforge Woodville

Address: 483 CR 3020
Woodville, TX 75979

Waste Information

Name of Waste: Universal Waste bulbs

TCEQ Waste Code #: Univ

Container Type:

Detailed Description of Process Generating Waste:

spent HID and fluorescent bulbs

Color: NA

Odor: NA

pH: NA

Physical State:

Incompatibilities: NA

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



DC/MM
Universal

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: Ameriforge Woodville
Address: 483 CR 3020
City: Woodville State: TX Zip: 75979
Contact: Jimmy Watts Title: MAINT MANAGER
Phone Number: 409-283-8138 Fax Number: 409-331-9089
24/hr Phone Number: _____
US EPA ID No: TXD988041620
State ID No: _____ 20154 SIC Code: _____

SECTION 2: Billing Information - ☐ Same as Above

Company: Ameriforge Woodville
Address: PO Box 2070
City: Woodville State: TX Zip: 77979
Contact: Jimmy Watts Title: _____
Phone Number: 409-283-8139 Fax Number: 409-331-9089

SECTION 3: General Description of the Waste

Name of Waste: Universal Waste bulbs

Detailed Description of Process Generating Waste:

spent HID and Fluorescent bulbs

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: NA Odor: NA

Specific Gravity (water=1): 1.8 Density: 9.8 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☒ Yearly ☐ One-Time

Quantity: 5

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

☐ Yes ☒ No

☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Universal Waste

Other regulated substances, solid, n.o.s.

NA3077 PG: III RQ: NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
NA		NA		NA <u>mg/l</u>		NA <u>mg/l</u>		100	%
Oil & Grease		TOC		Zinc		Copper		Nickel	
NA	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

NA

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals: X

TCLP Volatiles: X

TCLP Semi-Volatiles: X

Reactivity: X

Corrosivity: X

Ignitability: X

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: _____

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 6-15-09

Approval Number: _____

☒ Approved

☐ Rejected

3389



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$1.25/bulb for 4ft, \$1.50/bulb for 5ft, \$ for HID \$1.70 each

2. Contamination Limit (maximum limit before surcharges apply):

NA

3. Surcharge Pricing:

NA

4. Special Testing Requirements:

NA

5. Treatment and Handling Protocol:

UNIVERSAL WASTE

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

NA

8. Management for Product Recovered/Recycled (if applicable)

NA

Dana Carter

From: Jimmy Watts [JWatts@ameriforge.com]
Sent: Thursday, April 09, 2009 6:45 AM
To: Jimmy Watts
Subject: Emailing: Grainger MSDS Lookup

HID



☒ Close this window

Common Name: MERCURY VAPOR LAMPS

Manufacturer: GENERAL ELECTRIC

MSDS Revision Date: 8/1/2004

Grainger Item Number(s): 1C251, 1C257, 1C263, 1C277, 1C279, 1C310, 1C312, 1C340, 1C342, 1C347, 1C425, 1C427, 1E067, 1E097, 1E099, 1E101, 1E103, 1E212, 1E216, 1E219, 1E261, 1E279, 1E637, 1E639, 1E641, 1E643, 1E671, 1E674, 1E679, 1E686, 1E690, 1E692, 1E694, 1E871, 1E973, 1F258, 1F260, 1F276, 1F278, 1F346, 1F348, 1F396, 1F398, 1G980, 1K015, 1K253, 1K289, 1K291, 1K425, 1MM51, 1MM52, 1MM55, 1MM67, 1MM68, 1PCY8, 1PCY9, 1PCZ1, 1PCZ2, 1PCZ3, 1PCZ4, 1PCZ5, 1RD93, 1RF20, 1RF21, 1RF22, 1RF31, 1VZ60, 2C88, 2F103, 2F105, 2F107, 2F109, 2F111, 2F113, 2F192, 2F196, 2F198, 2F200, 2F202, 2F510, 2F942, 2F944, 2F968, 2F970, 2TJ27, 2TJ28, 2V450, 2V658, 2V659, 2V712, 3JJ88, 3JJ89, 3JJ92, 3JJ96, 3JJ97, 3JK01, 3JK02, 3JK41, 4DA14, 4DA27, 4HP23, 4HP24, 4LV88, 4PL04, 4PL05, 4PL06, 4PL07, 4PL08, 4V484, 4V516, 4V518, 4V550, 4V561, 4V565, 4V603, 4WW46, 4WW54, 5HB77, 5HB78, 5HB84, 5HB87, 5HB88, 5HB89, 5HB90, 5HB91, 5HB92, 5HB93, 5HB94, 5TB69, 5TB70, 5V075, 5V414, 5V658, 5V691, 5V792, 5V79, 5XN44, 5XN45, 5XN49, 5XN50, 5XN56, 5XN57, 5XN59, 5XN60, 5XN61, 5XN64, 5XN65, 5XN67, 5XN68, 6V040, 6V041, 6V111, 6V630, 6V631, 6V698, 6V699, 6V746, 6V747, 6V748, 6V749, 6V751, 6V752, 6V753, 6V75, 6V757, 6VR49, 6XT44, 6XT87, 6XT88, 6XT89, 6XT90, 6XT91, 6XT92, 6XT93, 6XT94, 6XV24, 6XV25, 6XV27, 6XV28, 6XV42, 6YG53

**Manufacturer Model
Number(s):**

MSDS Table of Contents

Click the desired link below to jump directly to that section in the MSDS.

[I. PRODUCT IDENTIFICATION](#)

[II. LAMP MATERIALS AND HAZARDOUS INGREDIENTS](#)

[III. HEALTH CONCERNS](#)

[IV. DISPOSAL CONCERNS](#)

GE

GE CONSUMER & INDUSTRIAL LIGHTING

LAMP MATERIAL INFORMATION SHEET

MATERIAL SAFETY DATA SHEETS (MSDS)

INFORMATION AND APPLICABILITY:

THE MATERIAL SAFETY DATA SHEET (MSDS) REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) FOR CHEMICALS ARE NOT APPLICABLE TO MANUFACTURED ARTICLES SUCH AS LAMPS. NO MATERIAL CONTAINED IN A LAMP IS RELEASED DURING NORMAL USE AND OPERATION.

THE FOLLOWING INFORMATION IS PROVIDED AS A SERVICE TO OUR CUSTOMERS. THE FOLLOWING LAMP MATERIAL INFORMATION SHEET CONTAINS APPLICABLE MATERIAL SAFETY DATA SHEET INFORMATION.

I. PRODUCT IDENTIFICATION

GE MERCURY VAPOR LAMPS

GE CONSUMER & INDUSTRIAL LIGHTING
1975 NOBLE ROAD
NELA PARK
CLEVELAND, OH 44112
(216) 266-2222

II. LAMP MATERIALS AND HAZARDOUS INGREDIENTS

GLASS:

THESE LAMPS CONSIST OF AN INNER QUARTZ ARC TUBE ENCLOSED IN AN OUTER ENVELOPE OF HEAT-RESISTANT GLASS. DEPENDING ON THE LAMP TYPE, THE ENVELOPE IS EITHER CLEAR OR COATED WITH ONE OF TWO DIFFERENT MATERIALS.

PHOSPHOR:

THE PHOSPHOR USED ON THE OUTER ENVELOPE OF THE "DX" TYPE LAMPS CONSISTS OF YTTRIUM VANADATE PHOSPHATE. THIS MATERIAL, LIKE MOST VANADIUM COMPOUNDS, IS RELATIVELY INSOLUBLE, AND APPEARS TO HAVE A MUCH LOWER TOXICITY THAN VANADIUM PENTOXIDE BUT MAY ELICIT SOME SIMILAR SYMPTOMS AT HIGH EXPOSURE LEVELS. EXCESSIVE INHALATION EXPOSURE TO VANADIUM PENTOXIDE MAY RESULT IN IRRITATION OF THE NASAL PASSAGES AND RESPIRATORY TRACT, COUGH, DIFFICULTY IN BREATHING, AND BRONCHITIS. HOWEVER, THE YTTRIUM VANADIUM PHOSPHATE FROM THE BREAKAGE OF ONE OR A SMALL NUMBER OF LAMPS SHOULD NOT RESULT IN A SIGNIFICANT EXPOSURE.

THE PHOSPHOR USED ON THE OUTER ENVELOPE OF THE "WDX" LAMPS IS THE SAME AS THAT IN THE "DX" LAMPS BUT WITH THE ADDITION OF A SMALL AMOUNT OF MAGNESIUM GERMANATE PHOSPHOR, A TOXICOLOGICALLY RELATIVELY INERT MATERIAL.

ARC TUBE:

THE QUARTZ ARC TUBE CONTAINS A SMALL AMOUNT OF MERCURY, RANGING FROM 14 MILLIGRAMS IN A 50 WATT UP TO 250 MG IN A 1000 WATT LAMP. THE ARC TUBE CONTAINS A SMALL AMOUNT OF INERT GAS ARGON USED AS A FILL GAS. IT ALSO CONTAINS A SMALL AMOUNT OF OTHER MATERIALS, USED AS AN EMISSION MIX ON THE ELECTRODES, BUT THERE WOULD BE NO SIGNIFICANT EXPOSURE FROM LAMP BREAKAGE.

ALSO CONTAINED IN THE ARC TUBE ARE SMALL AMOUNTS OF SODIUM AND SCANDIUM

IODIDE, AND IN SOME CASES THORIUM IODIDE. NONE OF THESE MATERIALS ARE EXPECTED TO BE A HAZARD IN THE SMALL QUANTITIES PRESENT IN THE ARC TUBE. THE COATING ON THE END(S) OF THE ARC TUBE IS ALUMINUM OXIDE, A MATERIAL GENERALLY CONSIDERED TO HAVE A LOW ORDER OF TOXICITY.

METALS:

INTERNALLY, THE SUPPORT WIRES USED IN THE LAMP CONSTRUCTION ARE MADE FROM NICKEL-COATED IRON OR STAINLESS STEEL WHILE THE ELECTRODES ARE TUNGSTEN. MANY OF THE MERCURY LAMP TYPES WILL USE A BRASS BASE AND HAVE LEAD-SOLDERED CONNECTIONS TO THAT BASE.

III. HEALTH CONCERNS

MERCURY EXPOSURE:

THE AIR CONCENTRATION OF MERCURY RESULTING FROM THE BREAKAGE OF ONE OR A SMALL NUMBER OF LAMPS SHOULD RESULT IN NO SIGNIFICANT EXPOSURE TO THE INDIVIDUAL. HOWEVER, IF BREAKING A LARGE NUMBER OF LAMPS FOR DISPOSAL, APPROPRIATE MONITORING, CONTROLS AND EQUIPMENT SHOULD BE IMPLEMENTED TO CONTROL AIRBORNE MERCURY AND DUST LEVELS OR SURFACE CONTAMINATION. SUCH WORK SHOULD BE DONE IN A WELL-VENTILATED AREA, AND LOCAL EXHAUST VENTILATION OR PERSONAL PROTECTIVE EQUIPMENT MAY BE NEEDED.

ULTRAVIOLET (UV) RADIATION:

THE QUARTZ ARC TUBE, WHEN OPERATING, GENERATES A CONSIDERABLE AMOUNT OF ULTRAVIOLET RADIATION. THE UV IS FILTERED TO ACCEPTABLE LEVELS BY THE GLASS OUTER ENVELOPE DURING NORMAL USE. HOWEVER, IF THE OUTER ENVELOPE IS BROKEN, THE UV FILTERING IS LOST. LAMPS HAVING ORDERING CODES BEGINNING WITH THE LETTERS "HR" OR "HSB" HAVE THE FOLLOWING WARNING NOTICE REQUIRED UNDER FEDERAL REGULATION 21 CFR 1040.30:

"WARNING:

THIS LAMP CAN CAUSE SERIOUS SKIN BURN AND EYE INFLAMMATION FROM SHORTWAVE ULTRAVIOLET RADIATION IF OUTER ENVELOPE OF THE LAMP IS BROKEN OR PUNCTURED, AND THE ARC TUBE CONTINUES TO OPERATE. DO NOT USE WHERE PEOPLE WILL REMAIN FOR MORE THAN A FEW MINUTES UNLESS ADEQUATE SHIELDING OR OTHER SAFETY PRECAUTIONS ARE USED. GENERAL ELECTRIC COMPANY HAS COMMERCIALY AVAILABLE SAF-T-GARD MERCURY AND MULTI-VAPOR LAMPS THAT WILL AUTOMATICALLY EXTINGUISH WHEN THE OUTER ENVELOPE IS BROKEN."

THE SELF-EXTINGUISHING METAL HALIDE LAMPS REFERRED TO ABOVE HAVE ORDER CODES BEGINNING WITH THE LETTERS "HT" OR "MVT". IF THE OUTER GLASS ENVELOPE OF A SAF-T-GARD LAMP IS BROKEN, ALTHOUGH THE ARC TUBE WILL HAVE SELF-EXTINGUISHED, ITS SUPPORT STRUCTURE WILL STILL BE ELECTRICALLY CONNECTED AND COULD PRESENT AN ELECTRICAL SHOCK HAZARD. THEREFORE, REGARDLESS OF THE TYPE, IF THE OUTER ENVELOPE OF THE LAMP IS BROKEN, TURN THE POWER OFF BEFORE REPLACING THE LAMPS.

IV. DISPOSAL CONCERNS

TCLP:

A TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) TEST CONDUCTED ON THE LAMP FOR LEAD OR MERCURY COULD CAUSE THE LAMP TO BE CLASSIFIED AS A HAZARDOUS WASTE. MERCURY LAMPS USE LEAD SOLDER ON THE LAMP BASE AND MERCURY IN THE ARC TUBE. THE LEAD SOLDER OR MERCURY VAPOR SHOULD POSE LITTLE RISK OF EXPOSURE UNDER NORMAL USE AND HANDLING. WHILE SMALL NUMBERS OF THESE LAMPS PLACED IN THE ORDINARY TRASH SHOULD NOT APPRECIABLY EFFECT THE NATURE OR METHOD OF DISPOSAL OF THE TRASH IN MOST STATES, UNDER SOME CIRCUMSTANCES

DISPOSAL OF LARGE QUANTITIES MAY BE REGULATED. YOU SHOULD REVIEW YOUR WASTE HANDLING PRACTICES TO ASSURE THAT YOU DISPOSE OF WASTE LAMPS PROPERLY. PLEASE CHECK WITH STATE ENVIRONMENTAL DEPARTMENTS REGARDING INDIVIDUAL STATE DISPOSAL REQUIREMENTS.

AUGUST 2004



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Material / Product Approval Letter

Date 6/22/2009

Dear George Sladechek

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3396

Expiration Date 6/22/2011

Producer: Southwest Shipyard

Address: 18310 Market Street
Channelview, TX 77530

Material / Product Information

Name of Material / Product Sulfuric Acid

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

From barge cleaning operations.

Color: Milky to brownish red **Odor:** Sulfur / H₂S **pH:** <2

Physical State:

Incompatibilities: metals, oxidizing agents

Safety Related Data/Special Handling:

Chemical Suite, Rubber Gloves, Rubber boots, safety goggles, face shield, hard hat

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000616

#33916

CES Environmental
Services, Inc.JR
SCProduct
Houston

☒ CES Environmental Services – Houston Facility
4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

☒ CES Environmental Services – Port Arthur Facility
2420 S. Gulfway Drive, Port Arthur, TX 77641
Phone: (713) 676-1460 Fax: (713) 676-1676
U.S. EPA ID No: TXR000079307 ISWR No: 88585

SECTION 1: Material Producer Information

Company: Southwest Shipyard, LP
Address: 18310 Market Street
City, State, Zip: Channelview, TX 77530
Contact: George Sladeczek Title:
Phone No: (281) 860-3200 Fax No: (281) 860-3215
24/hr Phone:
U.S. EPA I.D. No: N/A
State I.D. NA SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: Southwest Shipyard, LP
Address: 18310 Market Street
City, State, Zip: Channelview, TX 77530
Contact: George Sladeczek Title:
Phone No: 281-860-3200 Fax No: 281-860-3215

SECTION 3: General Description of the Material / ProductName of Material / Product: Sulfuric AcidDetailed Description of Process Generating or Producing the Material / Product: From barge cleaning operations.

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: Milky to brownish red Odor: Sulfur / H2S smellSpecific Gravity (water=1): 1.7 Density: 14 lbs/galDoes this material contain any total phenolic compounds? ☐ Yes ☒ NoDoes this material contain any para substituted phenolic compounds? ☐ Yes ☒ NoLayers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 Gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 25 Other: _____

Proper U.S. DOT Shipping Name: Sulfuric Acid (with more than 51% acid)

Class: 8 UN/NA: UN1830 PG: PG II RQ: 100

Flash Point >150	pH <2	N/A	N/A	Solids 1%
Oil & Grease <1500mg/l	TOC >15000mg/l	Zinc 0mg/l	Copper 2.74mg/l	Nickel 7.11mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Sulfuric Acid	60-80	%
Water	20-40	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.
Chemical Suit, Rubber Gloves, Rubber Boots, Safety Goggles, Face Shield, Hard Hat

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.
Lab Memo 09-110

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Metals, Oxidizing Agents

SECTION 8: Material Producer's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: 6-22-09

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Technical Manager: _____

Date: 6-22-09

Approved

Rejected

Approval Number: _____

18310 Market Street
Channelview, TX 77530
281-860-3200
281-860-3215

Southwest Shipyard L.P.

Fax

To: Jenny Rust	From: George Sladeczek
Fax: (713) 748-8664	Pages: 3
Phone: (713) 367-8581	Date: 6/22/2009
Re: Sulfuric acid profile sheet	CC:

Urgent ☒ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

• **Comments:**

Jenny,

Attached is the profile sheet for the sulfuric acid. We'll probably arrange for shipping but I'll let you know.

You can reach me at 713-417-4162 with any questions.

George Sladeczek

EPAHO109000619



4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Joe Camp
CC: Matt Bowman, Prabhaker, Clint Hopkins, Sam Brown
From: Miles Root

Date: 6/08/09

Lab Memo: 09-110

Subject: **Southwest Shipyard Sulfuric Acid Evaluations 0609-05 & 06**

Two samples of sulfuric acid from Southwest Shipyard have been evaluated for potential use at CES. These samples are evaluations 0609-05 and 06. These samples supposedly represent material from barge cleaning operations and another unknown source and are a one-time acquisition. There are 19 drums of evaluation 0609-05 and 32 drums of evaluation 0609-06 material. While neither of these sources are great material, they can be used to process our waste water at CES.

Evaluation 0609-05 is a milky looking acid with a density of 1.788. This equates to an acid strength of around 85% using a density table. A semi-quantitative analysis with caustic shows this material to be around 72.5% as sulfuric acid. This is a more accurate value for the acid strength. This material has a low TOC of 374 ppm but is high in nickel, copper and chromium. Considering how much acid is used in relation to the volume of water processed, the metals are not really going to be an issue. This acid is obviously spent with something and not just virgin acid washed from a barge.

Evaluation 0609-06 is a dark looking acid with a density of 1.715. This equates to an acid strength of around 78% using a density table. A semi-quantitative analysis with caustic shows this material to be around 62.5% as sulfuric acid. As density tables are for mixtures of acid and water only they really do not apply in this particular case. This acid smells like an acid from an alkylation process and has a high TOC of 23,020. Metals are acceptable with this acid.

While neither of these acids are great material for our use, they can be used to treat our process water. The high metals and/or TOC are really not much of an issue considering we may use 100 gallons of acid to treat 50,000 gallons of water, and the dilution factor causes these issues to become non-issues. Both are recommended for acquisition if our profit is worth our time and effort. The table below summarizes the analytical testing.

Southwest Shipyard		
Evaluations 0609-05 & 06		
	0609-05	0609-06
Density	1.788	1.715
Sulfuric Acid, % by titration	72.5	62.5
TOC, mg/L	374	23,020
Metals, ppm		
Ni	7.11	1.28
Zn	0.00	0.00
Cu	2.74	0.68
Cd	0.00	0.00
Cr	5.32	1.20



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

\$75 / DM, \$70/ HR for transportation

2. Contamination Limits (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

To be used in w/w neutralization. Lab Memo #09-110

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable):

--

Laboratory Analysis Report

Total Number of Pages: 7

Job ID : 09060229



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :
0609-07 Southwest Shipyard

Report To : Client Name: CES Environmental
Attn: Joe Camp
Client Address: 4904 Griggs Rd
City, State, Zip: Houston, Texas, 77021

P.O.#: 0609-07
Sample Collected By:
Date Collected: 06/08/09

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
Spent Sulfuric Acid 0609-07	Organic Liquid	09060229.01

Shantall Carpenter

Released By: Shantall Carpenter
Title: Project Manager
Date: 6/17/2009



This Laboratory is NELAP (T104704213-08B-TX) accredited. Effective: 07/01/2008; Expires: 06/30/2009

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Date Received : 06/09/2009 10:10

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 09060229

Date: 6/17/2009

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

Qualifier Definition

M2	Matrix Spike/Matrix Spike Duplicate recovery is below laboratory control limits due to matrix interference."The sample randomly selected as QC for this batch was not part of your project. Therefore, this sample matrix is not applicable to your project samples."
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**LABORATORY TEST RESULTS**

Job ID : 09060229

Date 6/17/2009

Client Name: CES Environmental

Attn: Joe Camp

Project Name: 0609-07 Southwest Shipyard

Client Sample ID: Spent Sulfuric Acid 0609-07

Job Sample ID: 09060229.01

Date Collected: 06/08/09

Sample Matrix Organic Liquid

Time Collected: 15:00

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Metals								
	Arsenic	BRL	mg/Kg	1	0.5			06/16/09 16:24	TK
	Barium	BRL	mg/Kg	1	0.5			06/16/09 16:24	TK
	Cadmium	BRL	mg/Kg	1	0.5			06/16/09 16:24	TK
	Chromium	1.959	mg/Kg	1	0.5			06/16/09 16:24	TK
	Lead	BRL	mg/Kg	1	0.5			06/16/09 16:24	TK
	Selenium	BRL	mg/Kg	1	0.5			06/16/09 16:24	TK
	Silver	BRL	mg/Kg	1	0.5			06/16/09 16:24	TK
SW-846 7470A	Total Metals - Mercury								
	Mercury	BRL	mg/Kg	1	0.01			06/09/09 16:38	SS

QUALITY CONTROL CERTIFICATE



Job ID : 09060229

Date : 6/17/2009

Analysis : Total Metals - Mercury Method : SW-846 7470A Reporting Units : mg/Kg

QC Batch ID : Qb09060947 Created Date : 06/09/09 Created By : Ssrinivasan

Samples in This QC Batch : 09060229.01

Digestion : PB09060943 Prep Method : SW-846 7470A Prep Date : 06/09/09 11:00 Prep By : Ssrinivasan

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Mercury	7439-97-6	BRL	mg/Kg	1	0.01	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.1	0.097	96.7	0.1	0.101	101	4	20	80-120	

QC Type: MS and MSD

QC Sample ID: 09060148.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.1	0.115	107						70-130	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09060229

Date : 6/17/2009

Analysis : Total Metals Method : SW-846 6010C Reporting Units : mg/Kg

QC Batch ID : Qb09061142 Created Date : 06/11/09 Created By : Tkhuc

Samples in This QC Batch : 09060229.01

Digestion : PB09061123 Prep Method : SW-846 3050B Prep Date : 06/11/09 12:00 Prep By : Tkhuc

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Arsenic	7440-38-2	BRL	mg/Kg	1	0.5	
Barium	7440-39-3	BRL	mg/Kg	1	0.5	
Cadmium	7440-43-9	BRL	mg/Kg	1	0.5	
Chromium	7440-47-3	BRL	mg/Kg	1	0.5	
Lead	7439-92-1	BRL	mg/Kg	1	0.5	
Selenium	7782-49-2	BRL	mg/Kg	1	0.5	
Silver	7440-22-4	BRL	mg/Kg	1	0.5	

QC Type: LCS and LCSD


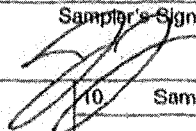

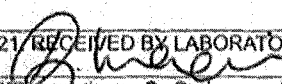
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	25	23.73	94.9	25	23.54	94.2	0.8	20	80-120	
Barium	25	25.70	103	25	25.35	101	1.4	20	80-120	
Cadmium	25	25.19	101	25	24.97	99.9	0.9	20	80-120	
Chromium	25	25.08	100	25	25.16	101	0.3	20	80-120	
Lead	25	25.21	101	25	24.96	99.8	1	20	80-120	
Selenium	25	21.29	85.2	25	21.19	84.8	0.5	20	80-120	
Silver	25	25.17	101	25	25.28	101	0.4	20	80-120	

QC Type: MS and MSD

QC Sample ID: 09060281.04

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	1.436	25	20.27	75.3						70-130	
Barium	120.3	25	135	58.8						70-130	M2
Cadmium	BRL	25	21.00	84						70-130	
Chromium	9.241	25	27.10	71.4						70-130	
Lead	59.7	25	83.19	94						70-130	
Selenium	BRL	25	17.37	69.5						70-130	M2
Silver	BRL	25	12.85	51.4						70-130	M2

Refer to the Definition page for terms.

 10100 East Fwy (I-10) Ste. 100 Houston, TX 77029 713-453-6060 1-877-478-6060 Toll Free 713-453-6091 Fax ablabs.com		1. REPORT TO: Company: <u>CES Environmental</u> Address: <u>4904 Briggs Rd.</u> <u>Houston, TX 77021</u> Contact: <u>Joe Camp</u> Phone: <u>713-367-8601</u> Fax: <input type="checkbox"/> <u>713-748-8664</u> E-mail: <input type="checkbox"/> <u>jcamp@cesenvironmental.com</u>		2. INVOICE TO: Company: <u>SAME</u> Address: _____ Contact: _____ Phone: _____ Fax: <input type="checkbox"/> _____ E-mail: <input type="checkbox"/> _____		3. PO # <u>0609-07</u>	
		4. Turnaround Time (Business Days) <input type="checkbox"/> 1 Day* <input type="checkbox"/> Other <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days* *Surcharge applies <input checked="" type="checkbox"/> 7 Days - Standard					
A&B JOB ID # <u>09060229</u>		5. Project # _____		6. Project Name/Location <u>Southwest Shipyard 0609-07</u>		7. Reporting Requirement: <input type="checkbox"/> TRRP Limits only <input type="checkbox"/> TRRP Rpt. Package <input type="checkbox"/> See Attached <input type="checkbox"/> Standard Level II	
8. Sampler's Name & Company (PLEASE PRINT) <u>CES Environmental</u>		Sampler's Signature & Date  <u>6/09/09</u>		13. Containers* <u>802</u> 14. Preservatives** _____ 15. PH-Lab Only _____ 16. PH-Lab Only _____ 17. Analyses/Methods <u>RCRA (8 metals)</u>		18. REMARKS <u>composite of drums</u>	
9. Sample ID and Description <u>DIA Spent Sulfuric Acid 0609-07</u>		10. Sampling Date: <u>06/08/09</u> Time: <u>3:00pm</u>		11. Matrix Comp. <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/> Other <input checked="" type="checkbox"/>		12. Matrix _____	
19. RELINQUISHED BY 1. <u>Joe Camp</u>  DATE: <u>06/09/09</u> TIME: <u>10:10 AM</u> 2. _____ 3. _____		20. RECEIVED BY _____ 21. RECEIVED BY LABORATORY  DATE: <u>6/9/09</u> TIME: <u>10:10</u>		22. KNOWN HAZARDS/COMMENTS Temperature: <u>25.6°C</u> Intact: <u>Y</u> or N Initials: <u>PRC</u>			
*Containers: <u>VOA - 40 ml vial</u> A/G - Amber/Glass 1 Liter <u>4 oz/8 oz - glass wide mouth</u> P/O - Plastic/other _____		**Preservatives: C - Cool H - HCl N - HNO ₃ S - H ₂ SO ₄ <u>OH - NaOH</u> T - Na ₂ S ₂ O ₅ X - Other _____		METHOD OF SHIPMENT _____ BILL OF LADING/TRACKING # _____			
LAB USE ONLY SAMPLING _____ RENTAL _____ P/U _____		LAB USE ONLY SAMPLING _____ RENTAL _____ P/U _____		A&B cannot accept verbal changes Please FAX written changes to 713-453-6091 Samples will be disposed of after 30 days A&B reserves the right to return samples			



Sample Condition Checklist

Date : 06/17/09

A&B JobID : 09060229	Date Received : 06/09/2009	Time Received : 10:10AM
Client Name : CES Environmental		
Temperature : 25.6°C	Sample pH : n/a	
Check Points		
1. Cooler seal present and signed.	Yes	No
2. Sample(s) in a cooler.		X
3. If yes, ice in cooler.		X
4. Sample(s) received with chain-of-custody.	X	
5. C-O-C signed and dated.	X	
6. Sample(s) received with signed sample custody seal.	N/A	
7. Sample containers arrived intact. (If no comment).	X	
8. Matrix : Water <input type="checkbox"/> Soil <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Sludge <input type="checkbox"/> Solid <input type="checkbox"/> Cassette <input type="checkbox"/> Tube <input type="checkbox"/> Bulk <input type="checkbox"/> Badge <input type="checkbox"/> Food <input type="checkbox"/> Other <input type="checkbox"/>		
9. Sample(s) were received in appropriate container(s).	X	
10. Sample(s) were received with proper preservative	N/A	
11. All samples were logged or labeled.	X	
12. Sample ID labels match C-O-C ID's	X	
13. Bottle count on C-O-C matches bottles found.	X	
14. Sample volume is sufficient for analyses requested.	X	
15. Samples were received within the hold time.	X	
16. VOA vials completely filled.	N/A	
17. Sample accepted.	X	
Comments : Include actions taken to resolve discrepancies/problem:		
Client is aware of temperature requirements.		

Received by : Ruwadia

Check in by/date : Dwarner / 06/09/2009



Material Safety Data Sheet

From: Vinquiry, Inc.
7795 Bell Road
Windsor, CA 95492

VINQUIRY

24 hour Emergency Telephone:
Chemtrec: 1-800-424-9300

Outside U.S. and Canada Chemtrec: 202-483-7616

NOTE: CHEMTREC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All Non-emergency questions should be directed to Customer Service (1-707-838-6312) for assistance.

Sulfuric Acid 1+3

SULFURIC ACID, 10 - 51%

MSDS Number: SA264 --- Effective Date: 01/01/01

1. Product Identification

Synonyms: Oil of vitriol; Babcock acid; sulphuric acid

CAS No.: 7664-93-9

Molecular Weight: 98.07

Chemical Formula: H₂SO₄ in H₂O

Vinquiry Inc. Product Codes: 10-264-0000, 10-264-0118, 10-264-0237, 10-264-0473, 10-264-0946

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Sulfuric Acid	7664-93-9	10 - 51%	Yes
Water	7732-18-5	49 - 90%	No

3. Hazards Identification

Emergency Overview

POISON! DANGER! CORROSIVE. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL IF SWALLOWED OR CONTACTED WITH SKIN. HARMFUL IF INHALED. AFFECTS TEETH. WATER REACTIVE. CANCER HAZARD. STRONG INORGANIC ACID MISTS CONTAINING SULFURIC ACID CAN CAUSE CANCER. Risk of cancer depends on duration and level of exposure.

VINQUIRY INC. SAFETY DATA Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Poison)

Flammability Rating: 0 - None

Reactivity Rating: 3 - Severe (Water Reactive)

Contact Rating: 4 - Extreme (Corrosive)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES

Storage Color Code: White (Corrosive)

Potential Health Effects

Inhalation:

Inhalation produces damaging effects on the mucous membranes and upper respiratory tract. Symptoms may include irritation of the nose and throat, and labored breathing. May cause lung edema, a medical emergency.

Ingestion:

Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to death. Can cause sore throat, vomiting, diarrhea. Circulatory collapse with clammy skin, weak and rapid pulse, shallow respirations, and scanty urine may follow ingestion or skin contact. Circulatory shock is often the immediate cause of death.

Skin Contact:

Corrosive. Symptoms of redness, pain, and severe burn can occur. Circulatory collapse with clammy skin, weak and rapid pulse, shallow respirations, and scanty urine may follow skin contact or ingestion. Circulatory shock is often the immediate cause of death.

Eye Contact:

Corrosive. Contact can cause blurred vision, redness, pain and severe tissue burns. Can cause blindness.

Chronic Exposure:

Long-term exposure to mist or vapors may cause damage to teeth. Chronic exposure to mists containing sulfuric acid is a cancer hazard.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

Ingestion:

DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Excess acid on skin can be neutralized with a 2% solution of bicarbonate of soda. Call a physician immediately.

Eye Contact:

Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.

5. Fire Fighting Measures

Fire:

Concentrated material is a strong dehydrating agent. Reacts with organic materials and may cause ignition of finely divided materials on contact.

Explosion:

Contact with most metals causes formation of flammable and explosive hydrogen gas.

Fire Extinguishing Media:

Dry chemical, foam or carbon dioxide. Do not use water on material. However, water spray may be used to keep fire exposed containers cool.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Structural firefighter's protective clothing is ineffective for fires involving this material. Stay away from sealed containers.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Neutralize with alkaline material (soda ash, lime), then absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

NEUTRASORB(R) or TEAM(R) 'Low Na+' acid neutralizers are recommended for spills of this product.

7. Handling and Storage

Store in a cool, dry, ventilated storage area with acid resistant floors and good drainage. Protect from physical damage. Keep out of direct sunlight and away from heat, water, and incompatible materials. Do not wash out container and use it for other purposes. When diluting, always add the acid to water; never add water to the acid. When opening metal containers, use non-sparking tools because of the possibility of hydrogen gas being present. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

For Sulfuric Acid:

- OSHA Permissible Exposure Limit (PEL) -

1 mg/m³ (TWA)

- ACGIH Threshold Limit Value (TLV) -

1 mg/m³(TWA), 3 mg/m³ (STEL), A2 - suspected human carcinogen for sulfuric acid contained in strong inorganic acid mists.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece respirator with an acid gas cartridge and particulate filter (NIOSH type N100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P particulate filter. For emergencies or instances where the exposure levels are not known, use a full- facepiece positive-pressure, air-supplied respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres. Where respirators are required, you must have a written program covering the basic requirements in the OSHA respirator standard. These include training, fit testing, medical approval, cleaning, maintenance, cartridge change schedules, etc. See 29CFR1910.134 for details.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Clear oily liquid.

Odor:

Odorless.

Solubility:

Miscible with water, liberates much heat.

Specific Gravity:

1.40 (50%), 1.07 (10%)

pH:

1 N solution (ca. 5% w/w) = 0.3; 0.1 N solution (ca. 0.5% w/w) = 1.2; 0.01 N solution (ca. 0.05% w/w) = 2.1.

% Volatiles by volume @ 21C (70F):

No information found.

Boiling Point:

ca. 290C (ca. 554F) (decomposes at 340C)

Melting Point:

3C (100%), -32C (93%), -38C (78%), -64C (65%).

Vapor Density (Air=1):

3.4

Vapor Pressure (mm Hg):
1 @ 145.8C (295F)
Evaporation Rate (BuAc=1):
No information found.

10. Stability and Reactivity

Stability:

Concentrated solutions react violently with water, spattering and liberating heat.

Hazardous Decomposition Products:

Toxic fumes of oxides of sulfur when heated to decomposition. Will react with water or steam to produce toxic and corrosive fumes. Reacts with carbonates to generate carbon dioxide gas, and with cyanides and sulfides to form poisonous hydrogen cyanide and hydrogen sulfide respectively.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Water, potassium chlorate, potassium perchlorate, potassium permanganate, sodium, lithium, bases, organic material, halogens, metal acetylides, oxides and hydrides, metals (yields hydrogen gas), strong oxidizing and reducing agents and many other reactive substances.

Conditions to Avoid:

Heat, moisture, incompatibles.

11. Toxicological Information

Toxicological Data:

Oral rat LD50: 2140 mg/kg; inhalation rat LC50: 510 mg/m³/2H; standard Draize, eye rabbit, 250 ug (severe); investigated as a tumorigen, mutagen, reproductive effector.

Carcinogenicity:

Cancer Status: The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric acid" as a known human carcinogen, (IARC category 1). This classification applies only to mists containing sulfuric acid and not to sulfuric acid or sulfuric acid solutions.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Sulfuric Acid (7664-93-9)	No	No	None
Water (7732-18-5)	No	No	None

12. Ecological Information

Environmental Fate:

When released into the soil, this material may leach into groundwater. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition. When released into the air, this material may be removed from the atmosphere to a moderate extent by dry deposition.

Environmental Toxicity:

LC50 Flounder 100 to 330 mg/l/48 hr aerated water/Conditions of bioassay not specified; LC50 Shrimp

80 to 90 mg/l/48 hr aerated water /Conditions of bioassay not specified; LC50 Prawn 42.5 ppm/48 hr salt water /Conditions of bioassay not specified.
This material may be toxic to aquatic life.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: SULFURIC ACID (WITH NOT MORE THAN 51% ACID)

Hazard Class: 8

UN/NA: UN2796

Packing Group: II

Information reported for product/size: 200L

International (Water, I.M.O.)

Proper Shipping Name: SULPHURIC ACID (WITH NOT MORE THAN 51% ACID)

Hazard Class: 8

UN/NA: UN2796

Packing Group: II

Information reported for product/size: 200L

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
Sulfuric Acid (7664-93-9)	Yes	Yes	Yes	Yes
Water (7732-18-5)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----

Ingredient	Korea	DSL	--Canada-- NDSL	Phil.
Sulfuric Acid (7664-93-9)	Yes	Yes	No	Yes
Water (7732-18-5)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----

Ingredient	-SARA 302- RQ	TPQ	-----SARA 313----- List	Chemical Catg.

Sulfuric Acid (7664-93-9)	1000	1000	Yes	No
Water (7732-18-5)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----			
Ingredient	CERCLA	-RCRA-	-TSCA-
		261.33	8 (d)
Sulfuric Acid (7664-93-9)	1000	No	No
Water (7732-18-5)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: Yes
 SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
 Reactivity: Yes (Pure / Liquid)

Australian Hazchem Code: 2P
Poison Schedule: None allocated.
WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: **3** Flammability: **0** Reactivity: **2** Other: **Water reactive**

Label Hazard Warning:

POISON! DANGER! CORROSIVE. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL IF SWALLOWED OR CONTACTED WITH SKIN. HARMFUL IF INHALED. AFFECTS TEETH. WATER REACTIVE. CANCER HAZARD. STRONG INORGANIC ACID MISTS CONTAINING SULFURIC ACID CAN CAUSE CANCER. Risk of cancer depends on duration and level of exposure.

Label Precautions:

Do not get in eyes, on skin, or on clothing.
Do not breathe mist.
Keep container closed.
Use only with adequate ventilation.
Wash thoroughly after handling.
Do not contact with water.

Label First Aid:

In all cases call a physician immediately. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use. Excess acid on skin can be neutralized with a 2% bicarbonate of soda solution. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Product Use:

Laboratory Reagent.

Revision Information:

Disclaimer

Vinquiry Inc. provides this information in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to laboratory use of this material by a properly trained person. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Vinquiry Inc. will not be responsible for damages resulting from use or reliance upon this information.

3390
Glad Entry Services



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/23/2009

Dear Zac or Dave

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3390

Expiration Date 6/23/2011

Generator: Global Entergy Services

Address: 11616 Galayda
Houston, TX 77086

Waste Information

Name of Waste: Unused oil and Debris

TCEQ Waste Code #: CESQ4091

Container Type:

Detailed Description of Process Generating Waste:

cleaning unused oil from hoses combined in drums with PPE

Color: dark

Odor: hydrocarbon

pH: na

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000639



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

DB/mm

OS
Houston

SECTION 1: Generator Information

Company: Global Energy Services
Address: 11616 Galveston
City, State, Zip: Houston, TX 77026
Contact: Scott Terry Title: HSE
Phone No: 281.447.9000 Fax No: _____
24/hr Phone: _____
U.S. EPA I.D. No: TXCES06
State I.D. CES06 SIC Code: _____

SECTION 2: Billing Information ~ ☐ Same as Above

Company: CKG Services
Address: 1420 Honeg Egypt
City, State, Zip: MONTZOMERY, TX 79116
Contact: ZAC McKAUGHAN Title: PRESIDENT
Phone No: 409.483.3602 office Fax No: 409.483.1226
281.541.4829 cell

SECTION 3: General Description of the Waste

Name of Waste: Unused oil & Debris
Detailed Description of Process Generating Waste: cleaning unused oil from hoses combined in drums with PPE

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: dark Odor: hydrocarbon

Specific Gravity (water=1): _____ Density: _____ lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: N/A ☐ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size: 55g _____

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly

Number of Units (containers): 25 Other: _____

Texas State Waste Code No: _____

Proper U.S. DOT Shipping Name: CESQ4091 Nonhazardous Non regulated waste

Class: _____ UN/NA: _____ PG: _____ RQ: _____

Flash Point N/A	N/A	Reactive Sulfides N/A mg/l	Reactive Cyanides N/A mg/l	Solids 100 %
Oil & Grease mg/l	TOC mg/l	Zinc mg/l	Copper mg/l	Nickel mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The waste consists of the following materials		Ranges are acceptable	or %
plastic		90-100	%
dirt		0-10	%
PPE		90-100	%
oily water		0-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: _____
 TCLP Volatiles: _____
 TCLP Semi-Volatiles: _____
 Reactivity: _____
 Corrosivity: _____
 Ignitability: _____

SECTION 9: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: 6/22/09

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: <u>Robert A. [Signature]</u>	
Date: <u>6-23-09</u>	Approved <input checked="" type="radio"/> Rejected <input type="radio"/>
Approval Number: <u>3390</u>	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

\$40/drum

2. Contamination Limits (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Class 1 landfill

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable):

--

3391

Drillmec, Inc

72

T-35

8-4-09

LA 3



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/23/2009

Dear Zac or Dave

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3391

Expiration Date 6/23/2011

Generator: Drillmec Inc.

Address: 162 Woolridge
Conroe, TX 77301

Waste Information

Name of Waste: Unused oil and Debris

TCEQ Waste Code #: CESQ4091

Container Type:

Detailed Description of Process Generating Waste:

cleaning unused oil out of hoses, combined in drums with PPE

Color: dark

Odor: hydrocarbon

pH: na

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000648

DB/MM

OS
Houston



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
<http://www.cesenvironmental.com>

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: DRILLMEC INC
Address: 102 Woodridge
City, State, Zip: Conroe TX 77301
Contact: Rob Parker Title: WER Manager
Phone No: 936.756.2071 Fax No: 936.441.1444
24/hr Phone: 936.441.1011
U.S. EPA I.D. No: TXCESQ9
State I.D.: CESQ9 SIC Code: _____

SECTION 2: Billing Information - ☐ Same as Above

Company: CKG Services
Address: 7120 Honea Egypt
City, State, Zip: Montgomery TX 77316
Contact: 200 McKaughan Title: President
Phone No: 936.483.3002 office Fax No: 936.756.1226
281.541.4829 cell

SECTION 3: General Description of the Waste

Name of Waste: Unused oil & Debris
Detailed Description of Process Generating Waste: cleaning unused oil out of hoses, combined in drums with PPE

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: dark Odor: hydrocarbon

Specific Gravity (water=1): _____ Density: _____ lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: N/A ☐ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55g

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly

Number of Units (containers): 25 Other: _____

Texas State Waste Code No: CESQ4091

Proper U.S. DOT Shipping Name: Nonhazardous / Non regulated waste

Class: _____ UN/NA: _____ PG: _____ RQ: _____

Flash Point <u>N/A</u>	PH <u>N/A</u>	Reactive Sulfides <u>N/A</u> mg/l	Reactive Cyanides <u>N/A</u> mg/l	Solids <u>100</u> %
Oil & Grease mg/l	TOC mg/l	Zinc mg/l	Copper mg/l	Nickel mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The waste consists of the following materials		Ranges are acceptable	or %
<u>plastic</u>		<u>90-100</u>	<u>%</u>
<u>oil</u>		<u>0-10</u>	<u>%</u>
<u>PPE</u>		<u>90-100</u>	<u>%</u>
<u>oily water</u>		<u>0.5</u>	<u>%</u>

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: _____
 TCLP Volatiles: _____
 TCLP Semi-Volatiles: _____
 Reactivity: _____
 Corrosivity: _____
 Ignitability: _____

SECTION 9: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: 6/22/09

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Rubén R. J. J.

Date: 6-23-09 Approved ☒ Rejected ☐

Approval Number: 3391

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

#40

2. Contamination Limits (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Class 1 land fill

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable):

--

PA 3369
Eagle Constellation



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Material / Product Approval Letter

Date 6/15/2009

Dear Michael Romeo

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3369

Expiration Date 6/12/2011

Producer: Eagle Construction & Environmental Services

Address: 1700 North 6 Street
La Porte, TX 77571

Material / Product Information

Name of Material / Product Sodium hydroxide solution

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused sodium hydroxide solution

Color: water white

Odor: none

pH: >12

Physical State:

Incompatibilities: acids, oxidizing agents

Safety Related Data/Special Handling:

Chem suit, rubber gloves, rubber boots, safety goggles, face shield, hard hat

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000656



3369
PACES 48/1mm
Product

☐ CES Environmental Services – Houston Facility
4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

☒ CES Environmental Services – Port Arthur Facility
2420 S. Gulfway Drive, Port Arthur, TX 77641
Phone: (713) 676-1460 Fax: (713) 676-1676
U.S. EPA ID No: TXR000079307 ISWR No: 88585

SECTION 1: Material Producer Information

Company: EAGLE / SWS / C.O.H. - P.W. G
Address: 1700 NORTH G STREET
City, State, Zip: LA PORTE, TX 77571
Contact: MICHAEL ROMEO Title: Asst. Terminal Manager
Phone No: 281-867-9131 Fax No: 281-867-9150
24/hr Phone: 800-336-0909
U.S. EPA I.D. No: TXR 000061481
State I.D. SIC Code:

SECTION 2: Billing Information – ☒ Same as Above

Company: _____
Address: _____
City, State, Zip: _____
Contact: _____ Title: _____
Phone No: _____ Fax No: _____

SECTION 3: General Description of the Waste

Name of Waste: Sodium hydroxide solution

Detailed Description of the Process Generating Waste:

Unused sodium hydroxide solution

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: water white Odor: none

Specific Gravity (Water=1): 1.261 Density: 9-9.5 lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Layers: ☒ Single-Phase ☐ Multi-Phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Container Size: 1000

Number Of Units: 1

Is this a USEPA "Hazardous Waste" per 40 CFR 261.3? ☐ Yes ☒ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", is it: ☐ D001 ☐ D002 ☐ D003

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007
☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristics for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code No : Product

Proper U.S. State Waste Code No : Sodium hydroxide solution

Class : 8 UN/NA : UN1824 PG : II RQ : 1000

Flash Point >140	pH >12	Reactive Sulfides na mg/l	Reactive Cyanides na mg/l	Solids 0 %
Oil and Grease na mg/l	TOC na mg/l	Zinc 2.1 mg/l	Copper 5.87 mg/l	Nickel .55 mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The material / product consists of the following materials		Ranges are acceptable	or %
sodium hydroxide		>25	%
water		25-75	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Chem suit, rubber gloves, rubber boots, safety goggles, face shield, hard hat

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

acids, oxidizing agents

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : X

TCLP Volatiles : X

TCLP Semi-Volatiles : X

Reactivity : X

Corrosivity : ☒ X
Ignitability : ☒ X

SECTION 9: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☐ YES ☒ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations

☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 10: Additional Instruction

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: 6/11/09

Printed Name / Title: MICHAEL ROMERO

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Process Facility Information :

Compliance Officer: Pamela J. Thomas

Date: 6-15-09

Status:

☒ Approved

☐ Rejected

Approval Number: 3369



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

No cost/No pay FOB PACES.

2. Contamination Limit (maximum limit before surcharges apply):

Must be water-white, free of solids, >25% caustic. No free-floating oil.

3. Surcharge Pricing:

4. Special Testing Requirements:

% NaOH by titration, color, clarity, pH.

5. Treatment and Handling Protocol:

Use in fresh caustic tank for NaOH production

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

See Section 4

8. Management for Product Recovered/Recycled (if applicable)

See Section 5

3375

Gullo Toyota



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/16/2009

Dear **Ron Kohler**

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3375

Expiration Date 6/16/2011

Generator: Gullo Toyota
Address: 500 I-45 South
Conroe, TX 77301

Waste Information

Name of Waste: Empty fuel tanks

TCEQ Waste Code #: Recycle

Container Type: Tank

Detailed Description of Process Generating Waste:

Fuel tanks removed from vehicles (empty)

Color: brown/black **Odor:** none **pH:** NA

Physical State:

Incompatibilities: None

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000664

Monday, June 15, 2009
2:12 PM

Recycle
Houston

fo / mm

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Gullo Toyota
Address: 500 F-45 South
City, State, Zip: Conroe Tx. 77301
Contact: Don Marceau Title: Service Director
Phone No: 281-350-4141 Fax No: _____
24/hr Phone: _____
U.S. EPA I.D. No: CESG
State I.D. CESG SIC Code: 5511

SECTION 2: Billing Information - ☐ Same as Above

Company: Select Environmental
Address: 223 McCarty Dr.
City, State, Zip: Houston Tx. 77029
Contact: Heidi White Title: Sales
Phone No: 713-675-7376 Fax No: 713-255-1761

SECTION 3: General Description of the Waste

Name of Waste: Empty Fuel Tanks
Detailed Description of Process Generating Waste: Fuel tanks removed from vehicles (empty)

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: Brown/Black Odor: none

Specific Gravity (water=1): NA Density: NA lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)
Container Size: _____ Tank

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly

Number of Units (containers): 10 Other: One time

Texas State Waste Code No: _____

Proper U.S. DOT Shipping Name: Non-RCRA / Non-DOT Regulated Material

Class: NA

UN/NA: NA

PG: NA

RQ: NA

Flash Point <u>NA</u>	pH <u>NA</u>	Reactive Sulfides <u>NA</u> mg/l	Reactive Cyanides <u>NA</u> mg/l	Solids <u>100</u> %
Oil & Grease <u>1500</u> mg/l	TOC <u>NA</u> mg/l	Zinc <u>NA</u> mg/l	Copper <u>NA</u> mg/l	Nickel <u>NA</u> mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The waste consists of the following materials		Ranges are acceptable	or %
<u>Fuel tanks empty</u>		<u>100</u>	<u>100%</u>

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Std PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:
TCLP Volatiles:
TCLP Semi-Volatiles:
Reactivity:
Corrosivity:
Ignitability:

/
/
/
/
/
/

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

X Authorized Signature: Doc Moca Date: 6-15-09

Printed Name/Title:

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: <u>Robert J. Moca</u>	
Date: <u>6-15-09</u>	Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>
Approval Number: <u>3375</u>	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If "Yes", complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

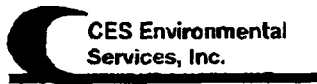
Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

**PROCESS FACILITY INFORMATION (CES USE ONLY!!)****1. Base Pricing (including freight):**

\$65 per tank

2. Contamination Limits (maximum limit before surcharges apply):

must be ^{RCRA} empty

3. Surcharge Pricing:

none

4. Special Testing Requirements:

Check that each tank is RCRA empty

5. Treatment and Handling Protocol:

Shred & send to Scrap Metal Bin

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable):

--

3376

Ameritige Woodville



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/15/2009

Dear Jimmy Watts

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3376

Expiration Date 6/15/2011

Generator: Ameriforge Woodville

Address: 483 CR 3020
Woodville, TX 75979

Waste Information

Name of Waste: Non hazardous graphite

TCEQ Waste Code #: 10016091

Container Type:

Detailed Description of Process Generating Waste:

Non hazardous graphite

Color: Black

Odor: None

pH: 7-9

Physical State:

Incompatibilities: Strong oxidizers

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DC/MM

DS



<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: Ameriforge Woodville
 Address: 483 CR 3020
 City: Woodville State: TX Zip: 75979
 Contact: Jimmy Watts Title: MAINT MANAGER
 Phone Number: 409-283-8138 Fax Number: 409-331-9089
 24/hr Phone Number: _____
 US EPA ID No: TXD988041620
 State ID No: _____ 20154 SIC Code: _____

SECTION 2: Billing Information - ☐ Same as Above

Company: Ameriforge Woodville
 Address: PO Box 2070
 City: Woodville State: TX Zip: 77979
 Contact: Jimmy Watts Title: _____
 Phone Number: 409-283-8139 Fax Number: 409-331-9089

SECTION 3: General Description of the WasteName of Waste: Non hazardous graphite

Detailed Description of Process Generating Waste: _____

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: black Odor: none

Specific Gravity (water=1): 1.18 Density: 9.8 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☒ Yearly ☐ One-Time

Quantity: 5

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

10016091

Class: NA **UN/NA:** NA **PG :** NA **RQ:** NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
NA		7-9		NA <u>mg/l</u>		NA <u>mg/l</u>		100	%
Oil & Grease		TOC		Zinc		Copper		Nickel	
NA	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. MSDS and Analytical #09050544.01

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

strong oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:

TCLP Volatiles:

X

TCLP Semi-Volatiles:

X

Reactivity:

X

Corrosivity:

X

Ignitability:

X

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES

☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
- Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L
- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
- ☐ Metals Subcategory
 - ☐ Oils Subcategory
 - ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: _____

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: _____	
Date: 6-15-09	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected
Approval Number: 3376	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$65.00/drum plus freight

2. Contamination Limit (maximum limit before surcharges apply):

NA

3. Surcharge Pricing:

NA

4. Special Testing Requirements:

NA

5. Treatment and Handling Protocol:

Put in class 1 solids box

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

NA

8. Management for Product Recovered/Recycled (if applicable)

NA

(b) (4)



(b) (4)



(b) (4)



(b) (4)



(b) (4)



Laboratory Analysis Report

Total Number of Pages: 7

Job ID : 09050544



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :
0509-46 Ameriforge Woodville

Report To : Client Name: CES Environmental
Attn: Dana Carter
Client Address: 4904 Griggs Rd
City, State, Zip: Houston, Texas, 77021

P.O.#.: 0509-46
Sample Collected By: Dana Carter
Date Collected: 05/26/09

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
Graphite	Solid	09050544.01

Shantall Carpenter

Released By: Shantall Carpenter

Title: Project Manager

Date: 6/3/2009



This Laboratory is NELAP (T104704213-08B-TX) accredited. Effective: 07/01/2008; Expires: 06/30/2009

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Date Received : 05/27/2009 12:31

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 09050544

Date: 6/3/2009

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

Qualifier Definition

**LABORATORY TEST RESULTS**

Job ID : 09050544

Date 6/3/2009

Client Name: CES Environmental

Attn: Dana Carter

Project Name: 0509-46 Ameriforge Woodville

Client Sample ID: Graphite

Job Sample ID: 09050544.01

Date Collected: 05/26/09

Sample Matrix Solid

Time Collected: 14:00

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	TCLP Metals								
	Arsenic	BRL	mg/L	1	0.04	5.0		06/01/09 15:30	TK
	Barium	0.243	mg/L	1	0.04	100.0		06/01/09 15:30	TK
	Cadmium	BRL	mg/L	1	0.04	1.0		06/01/09 15:30	TK
	Chromium	BRL	mg/L	1	0.04	5.0		06/01/09 15:30	TK
	Lead	BRL	mg/L	1	0.04	5.0		06/01/09 15:30	TK
	Selenium	BRL	mg/L	1	0.1	1.0		06/01/09 15:30	TK
	Silver	BRL	mg/L	1	0.04	5.0		06/01/09 15:30	TK
SW-846 7470A	TCLP Metals, Mercury								
	Mercury	BRL	mg/L	1	0.0005	0.2		05/29/09 12:50	SS

QUALITY CONTROL CERTIFICATE



Job ID : 09050544

Date : 6/3/2009

Analysis : TCLP Metals **Method :** SW-846 6010C **Reporting Units :** mg/L

QC Batch ID : Qb09052917 **Created Date :** 05/29/09 **Created By :** Tkhuc

Samples in This QC Batch : 09050544.01

Digestion : PB09052915 **Prep Method :** SW-846 3010A **Prep Date :** 05/29/09 10:00 **Prep By :** Tkhuc
TCLP Prep : PB09052804 **Prep Method :** SW-846 1311 **Prep Date :** 05/27/09 17:00 **Prep By :** Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Arsenic	7440-38-2	BRL	mg/L	1	0.04	
Barium	7440-39-3	BRL	mg/L	1	0.04	
Cadmium	7440-43-9	BRL	mg/L	1	0.04	
Chromium	7440-47-3	BRL	mg/L	1	0.04	
Lead	7439-92-1	BRL	mg/L	1	0.04	
Selenium	7782-49-2	BRL	mg/L	1	0.1	
Silver	7440-22-4	BRL	mg/L	1	0.04	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	2	2.11	106	2	2.09	105	1	20	80-120	
Barium	2	2.04	102	2	2.02	101	1	20	80-120	
Cadmium	2	2.01	101	2	1.99	99.5	1	20	80-120	
Chromium	2	1.97	98.5	2	1.95	97.5	1	20	80-120	
Lead	2	2.05	103	2	2.02	101	1.5	20	80-120	
Selenium	2	2.10	105	2	2.08	104	1	20	80-120	
Silver	2	2.00	100	2	1.99	99.5	0.5	20	80-120	

QC Type: MS and MSD

QC Sample ID: 09050570.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	BRL	2	2.09	105						45-138	
Barium	0.165	2	2.20	102						39-135	
Cadmium	BRL	2	2.01	101						56-125	
Chromium	BRL	2	1.96	98						52-125	
Lead	BRL	2	2.02	101						55-125	
Selenium	BRL	2	2.08	104						18-137	
Silver	BRL	2	2.00	100						26-148	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 09050544

Date : 6/3/2009

Analysis : TCLP Metals, Mercury		Method : SW-846 7470A	Reporting Units : mg/L
QC Batch ID : Qb09052935	Created Date : 05/29/09	Created By : Ssrinivasan	
Samples in This QC Batch : 09050544.01			
Digestion : PB09052929	Prep Method : SW-846 7470A	Prep Date : 05/29/09 08:10	Prep By : Ssrinivasan
TCLP Prep : PB09052804	Prep Method : SW-846 1311	Prep Date : 05/27/09 17:00	Prep By : Ksudha

QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Mercury	7439-97-6	BRL	mg/L	1	0.0005		

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.005	0.0047	94.6	0.005	0.0049	98.8	4.3	20	71-143	

QC Type: MS and MSD										
QC Sample ID: 09050570.01										
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit
Mercury	BRL	0.005	0.0050	99.8						61-175

Refer to the Definition page for terms.



Sample Condition Checklist

Date : 06/03/09

A&B JobID : 09050544		Date Received : 05/27/2009		Time Received : 12:31PM								
Client Name : CES Environmental												
Temperature : 5.7°C		Sample pH : N/A										
	Check Points				Yes	No						
1.	Cooler seal present and signed.				N/A							
2.	Sample(s) in a cooler.				X							
3.	If yes, ice in cooler.				X							
4.	Sample(s) received with chain-of-custody.				X							
5.	C-O-C signed and dated.				X							
6.	Sample(s) received with signed sample custody seal.				N/A							
7.	Sample containers arrived intact. (If no comment).				X							
8.	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other
:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Sample(s) were received in appropriate container(s).				X							
10.	Sample(s) were received with proper preservative				N/A							
11.	All samples were logged or labeled.				X							
12.	Sample ID labels match C-O-C ID's				X							
13.	Bottle count on C-O-C matches bottles found.				X							
14.	Sample volume is sufficient for analyses requested.				X							
15.	Samples were received within the hold time.				X							
16.	VOA vials completely filled.				N/A							
17.	Sample accepted.				X							
Comments : Include actions taken to resolve discrepancies/problem:												

Received by : Mgonzalez

Check in by/date : Mgonzalez / 05/27/2009

PA - 3377
National Oilwell Varco



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/16/2009

Dear Tilden Gaspard

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3377

Expiration Date 6/16/2011

Generator: National Oilwell Varco

Address: 4310 N Sam Houston Pkwy E.
Houston, TX 77032

Waste Information

Name of Waste: Recyclable oil filters

TCEQ Waste Code #: Rec

Container Type:

Detailed Description of Process Generating Waste:

Oil filters removed from rental generator units

Color: Varies

Odor: None

pH: 5-10

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DB / mm

Recycle



<input type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input checked="" type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
--	--

SECTION 1: Generator Information

Company: National Oilwell Varco
 Address: 4310 N Sam Houston Pkwy E.
 City: Houston State: TX Zip: 77032
 Contact: Tilden Gaspard Title: Management
 Phone Number: 713-482-0605 Fax Number: 713-482-0699
 24/hr Phone Number: 936-827-3614
 US EPA ID No: TXCESQG
 State ID No: CESQG SIC Code: _____

SECTION 2: Billing Information - ☐ Same as Above

Company: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Contact: _____ Title: _____
 Phone Number: _____ Fax Number: _____

SECTION 3: General Description of the WasteName of Waste: Recyclable Oil Filters

Detailed Description of Process Generating Waste:

Oil filters removed from rental generator units

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: Varies Odor: None

Specific Gravity (water=1): 1-1.3 Density: 8.5-9 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☒ Other (explain)

Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☐ One-Time

Quantity: 1-12 dms or 1-5 cy boxes

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Na

☐ Yes ☒ No

NA

☐ Yes ☒ No

NA

Recyclable

Recyclable Used oil filters

NA PG : NA RQ: NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>160		5-10		0 <u>mg/l</u>		0 <u>mg/l</u>		98-100 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
Na	<u>mg/l</u>	Na	<u>mg/l</u>	0	<u>mg/l</u>	0	<u>mg/l</u>	0	<u>mg/l</u>

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list ALL Incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	<u>Na</u>
TCLP Volatiles:	<u>Na</u>
TCLP Semi-Volatiles:	<u>Na</u>
Reactivity:	<u>Na</u>
Corrosivity:	<u>Na</u>
Ignitability:	<u>Na</u>

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES

☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory : Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Tilden Gaspard

Date: 6/11/2009

Printed Name/Title: Tilden Gaspard

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: <u>[Signature]</u>	
Date: <u>6-15-09</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected
Approval Number: <u>3377</u>	



**CES Environmental
Services, Inc.**

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

\$35/dm, \$85/cy
\$275/load trans

2. Contamination Limits (maximum limit before surcharges apply):

Non-Conforming to profile

3. Surcharge Pricing:

Call sales rep (Dan Bowman 713-854-6150)

4. Special Testing Requirements:

None

5. Treatment and Handling Protocol:

recycle to maxia box

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

NA

8. Management for Product Recovered/Recycled (if applicable):

NA

PA - 3378
National Oilwell Varco



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/16/2009

Dear Tilden Gaspard

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3378

Expiration Date 6/16/2011

Generator: National Oilwell Varco

Address: 4310 N Sam Houston Pkwy E.
Houston, TX 77032

Waste Information

Name of Waste: Recyclable Antifreeze

TCEQ Waste Code #: Rec

Container Type:

Detailed Description of Process Generating Waste:

Antifreeze removed from portable generators

Color: Green to Red

Odor: None

pH: 5-10

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



DBI/mm
Recycle

<input type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input checked="" type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
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SECTION 1: Generator Information

Company: National Oilwell Varco
Address: 4310 N Sam Houston Pkwy E.
City: Houston State: TX Zip: 77032
Contact: Tilden Gaspard Title: Management
Phone Number: 713-482-0605 Fax Number: 713-482-0699
24/hr Phone Number: 936-827-3614
US EPA ID No: TXCESQG
State ID No: CESQG SIC Code: _____

SECTION 2: Billing Information - ☐ Same as Above

Company: _____
Address: _____
City: _____ State: _____ Zip: _____
Contact: _____ Title: _____
Phone Number: _____ Fax Number: _____

SECTION 3: General Description of the Waste

Name of Waste: Recyclable Antifreeze
Detailed Description of Process Generating Waste: _____

Antifreeze removed from portable generators

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination
Color: Green to Red Odor: None

Specific Gravity (water=1): 1-1.3 Density: 8.5-9 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☐ One-Time

Quantity: 300-1000

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals: CES Lab will test

TCLP Volatiles: Na

TCLP Semi-Volatiles: Na

Reactivity: Na

Corrosivity: Na

Ignitability: Na

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☒ YES

☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☒ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory : Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☒ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Tilden Gaspard

Date: _____

6/11/2009

Printed Name/Title: _____

Tilden Gaspard

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

P. Gaspard

Date: _____

6-15-09

☒ Approved

☐ Rejected

Approval Number: _____

3378



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

.25/gal bulk, \$150/tote (include the tote exchange)
\$275/load trans

2. Contamination Limits (maximum limit before surcharges apply):

Non-Conforming to profile

3. Surcharge Pricing:

Call sales rep (Dan Bowman 713-854-6150)

4. Special Testing Requirements:

% Glycol

5. Treatment and Handling Protocol:

Sell with other glycols-should be at least 50%

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

NA

8. Management for Product Recovered/Recycled (if applicable):

NA

PA-3379
Arkema, Inc - Crosby



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Material / Product Approval Letter

Date 6/17/2009

Dear Kate Alexander

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3379

Expiration Date 6/17/2011

Producer: Arkema, Inc - Crosby
Address: 18000 Crosby Eastgate Road
Crosby, TX 77532

Material / Product Information

Name of Material / Product Spent sulfuric acid
Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Spent sulfuric acid used in the catalysis reaction for organic peroxide production

Color: amber **Odor:** characteristic **pH:** 0-1

Physical State:

Incompatibilities: Avoid contact with carbides, chlorates, nitrates, powdered metals and other hazardous combustible materials

Safety Related Data/Special Handling:

See MSDS

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



CES Environmental
Services, Inc.

46/ mm PACES
Product

☐ CES Environmental Services – Houston Facility
4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

☒ CES Environmental Services – Port Arthur Facility
2420 S. Gulfway Drive, Port Arthur, TX 77641
Phone: (713) 676-1460 Fax: (713) 676-1676
U.S. EPA ID No: TXR000079307 ISWR No: 88585

SECTION 1: Material Producer Information

Company: Arkema
Address: 18000 Crosby Eastgate Road
City, State, Zip: Crosby, TX 77532
Contact: Kate Alexander Title: Environmental Engineer
Phone No: 281-328-9430 Fax No: 281-328-9465
24/hr Phone: 830-556-1636
U.S. EPA I.D. No: TXD043750512
State I.D. 30458 SIC Code: _____

SECTION 2: Billing Information – ☒ Same as Above

Company: _____
Address: _____
City, State, Zip: _____
Contact: _____ Title: _____
Phone No: _____ Fax No: _____

SECTION 3: General Description of the Material / Product

Name of Material / Product: Spent Sulfuric Acid

Detailed Description of Process Generating or Producing the Material / Product: Spent Sulfuric acid used in the catalysis reaction for organic peroxide production

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: amber

Odor: characteristic

Specific Gravity (water=1): 1.3-1.4

Density: 10.8-11.7

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Container Size: _____ 5000 gal _____

Frequency: ☒ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly

Proper U.S. DOT Shipping Name:

Product
Sulfuric Acid, Spent

Class: 8

UN/NA: UN1832

PG: II

RQ: 1000 lbs

Flash Point >73 deg F	pH 0-1	N/A	N/A	Solids %
Oil&Grease <1500mg/l	TOC 30-80,000mg/l	Zinc 0-2mg/l	Copper 0-2mg/l	Nickel mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Sulfuric Acid	45-58	%
Water	20-40	%
Isobutylene	1-3	%
t-Butyl alcohol or t-amyl alcohol	5-7	%
Isobutylene or Isoamylene	1-3	%
see additional components table attached		

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.
see msds

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.
msds, analytical

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
avoid contact with carbides, chlorates, nitrates, powdered metals and other hazardous combustible materials

SECTION 8: Material Producer's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Kate Alexander Date: 11/11/08
Printed Name/Title: Kate Alexander, Environmental Engineer

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: <u>[Signature]</u>	
Date: <u>6-16-09</u>	Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>
Approval Number: <u>3379</u>	

ADDITIONAL COMPONENTS TABLE (continued from profile)	Concentration	Units
<i>The material / product consists of the following additional components</i>	<i>Ranges are acceptable</i>	<i>or %</i>
di-t-butyl hydroperoxide or di-t-amyl hydroperoxide	0-1	%
t-butyl hydroperoxide or t-amyl hydroperoxide	0-1	%
Acetone	0-1 *	%
Sulfur Dioxide	0-1	%

1. Base Pricing (including freight):

Charge \$0.20/gal FOB PACES

2. Contamination Limit (maximum limit before surcharges apply):

Must meet product spent sulfuric acid specifications as outlined in Section 7.

3. Surcharge Pricing:

Any deviation from product specification require prior approval and pricing before acceptance at facility.

4. Special Testing Requirements:

See Section 7

5. Treatment and Handling Protocol:

See Section 8

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

NA

7. Tests for Product Recovered/Recycled (if applicable):

Measure % sulfuric acid by S.G.
Visual inspection for solids, color, clarity, odor. Must meet
product Spent acid specifications as seen on attached table.

8. Management for Product Recovered/Recycled (if applicable)

Unload to sulfuric acid feedstock tank for
use in Nash production.



4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Joy Baker
Cc: Matt Bowman, Gary Peterson, Prabhaker,
Matt Moser, Joe Camp, Bo Cumberland, Chris Saylor
Brian Weathers

Date: 11/05/08

From: Miles Root

Lab Memo: 08-193

Subject: **Arkema, Crosby Evaluation 1108-13**

A sample of sulfuric acid from Arkema, Crosby has been evaluated for use at CES Port Arthur. This sample is evaluation 1108-13. Overall, this acid looks okay for use in our acidification process.

The density of this sample is 1.357, which equates to an approximate concentration of 46% sulfuric acid. This sulfuric acid may contain a few alcohols and peroxides, as it comes from an organic peroxide production operation. This only adds to the TOC value and will not affect its usefulness to CES.

This sample is medium amber in appearance and contains no layers, solids or sludge. The TOC on this sample is 67,350. Metals are acceptable. A reaction with caustic shows a typical acid base reaction with no abnormalities.

Remember that this acid will be used in a reaction vessel that typically uses around 91% acid strength. Doubling the amount typically used will be needed to produce the same results. Operations wise, a little less feed to accommodate the extra space will be needed. The high TOC, if it is an issue, will be diluted down by at least a factor of 10 in a typical acidification process at CES Port Arthur. I don't see anything chemically wise that would prevent us from using this source.

The table below summarizes the analytical testing.

Arkema Crosby Evaluation 1108-13	
Density	1.357
%Sulfuric Acid, by density	46
Solids, vol%	0
TOC, mg/L	67,350
Oil, vol%	0
Caustic Reaction	OK
Metals, ppm	
Ni	1.062
Zn	1.047
Cu	0.157
Cd	0.000
Cr	0.000

**SPENT SULFURIC ACID**

Material Safety Data Sheet

Arkema Inc.

1 PRODUCT AND COMPANY IDENTIFICATION**Functional Additives**

2000 Market Street
21st Floor
Philadelphia, PA 19103-3222

EMERGENCY PHONE NUMBERS:

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison Control Center
(866) 767-5089 (24Hrs)

Information Telephone Numbers**Phone Number****Available Hrs**

Customer Service Number

(800) 331-7654

8:00 AM - 5:00 PM EST

Product Name SPENT SULFURIC ACID

Product Synonym(s)

Chemical Family Acid

Chemical Formula H₂SO₄

Chemical Name Sulfuric Acid Solution

EPA Reg Num

Product Use

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Registry Number	Typical %	OSHA
Sulfuric acid	7664-93-9	45-58% By Wt.	Y
→ Isobutylene <i>should be 1-3%</i>	115-11-7	20-31% By Wt.	Y
Water	7732-18-5	15-25% By Wt.	Y
t-Butyl alcohol	75-65-0	5-7% By Wt.	Y
2-Methyl-2-butanol	75-85-4	5-7% By Wt.	Y
tert-Butyl hydroperoxide	75-91-2	< 1% By Wt.	Y
Di-tert-butyl peroxide	110-05-4	< 1% By Wt.	Y
Acetone	67-64-1	< 1% By Wt.	Y

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

The components of this product are either on the TSCA Inventory list or exempt as impurities.

3 HAZARDS IDENTIFICATION**Emergency Overview**

Brown liquid, strong odor

DANGER!

CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS. MAY CAUSE BLINDNESS.

CAUSES DIGESTIVE TRACT BURNS.

FLAMMABLE LIQUID AND VAPOR.

CONTAINS SULFURIC ACID:

CANCER HAZARD. INHALATION OF MISTS CAN CAUSE CANCER

Risk of cancer depends on duration and level of exposure

CAN CAUSE LUNG INJURY



SPENT SULFURIC ACID

Material Safety Data Sheet

Arkema Inc.

Potential Health Effects

4 FIRST AID MEASURES

IN CASE OF CONTACT, immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature	NE	
Flash Point	>73 F	Flash Point Method
Flammable Limits- Upper	NE	
Lower	NE	

Extinguishing Media

Use water spray or other suitable agent for fires adjacent to non-leaking tanks or other containers of sulfuric acid. Avoid spraying water into containers. If only a small amount of combustibles is present, smother fire with dry chemical.

Fire Fighting Instructions

Do NOT use a solid stream of water. A solid stream of water can spread fire. Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards

Forms hydrogen chloride when contacted with water.

6 ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Small spills: soak up with an inert absorbent. Scoop up and place in a clean, dry container. Consult with environmental engineer or professional to determine if neutralization is appropriate and for handling procedures for residual materials.

Large spills: Pump into marked containers for disposal or reclamation. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

7 HANDLING AND STORAGE



SPENT SULFURIC ACID

Material Safety Data Sheet

Arkema Inc.

7 HANDLING AND STORAGE

Handling

Do not get in eyes, on skin or on clothing.
Do not breathe vapor.
Do not taste or swallow.
Keep away from heat, sparks and flames.
Keep container closed.
Use only with adequate ventilation.
Wash thoroughly after handling.

CONTAINER HAZARDOUS WHEN EMPTY. Emptied container retains vapor and product residue. Follow labeled warnings even after container is emptied. RESIDUAL VAPORS MAY EXPLODE ON IGNITION. DO NOT CUT, DRILL GRIND OR WELD ON OR NEAR THIS CONTAINER. Improper disposal or reuse of this container may be dangerous and/or illegal.

Storage

Avoid excessive heat. Store out of direct sunlight in a cool, well-ventilated place. Do NOT store near strong bases.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Eye / Face Protection

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

Skin Protection

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash skin thoroughly after handling.

Respiratory Protection

Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and chemical goggles. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Other Protective Equipment

Rubber boots, Apron and Chemical resistant protective clothing.

Airborne Exposure Guidelines for Ingredients

**SPENT SULFURIC ACID**

Material Safety Data Sheet

Arkema Inc.

Exposure Limit		Value
Acetone		
ACGIH STEL	-	750 ppm (1782 mg/m3)
ACGIH TWA	-	500 ppm (1188 mg/m3)
OSHA TWA PEL	-	1000 ppm (2400 mg/m3)
Sulfuric acid		
ACGIH TWA	-	0.2 mg/m3
OSHA TWA PEL	-	1 mg/m3
t-Butyl alcohol		
ACGIH TWA	-	100 ppm
OSHA TWA PEL	-	100 ppm (300 mg/m3)

-Only those components with exposure limits are printed in this section.
-Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
-ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.
-WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	Brown liquid, strong odor
pH	NE
Specific Gravity	1.33
Vapor Pressure	NE
Vapor Density	NE
Melting Point	NE
Freezing Point	NE
Boiling Point	NE
Solubility In Water	NE

10 STABILITY AND REACTIVITY**Stability**

This material is chemically stable under normal and anticipated storage and handling conditions.

Hazardous Polymerization

Does not occur.

Incompatibility

Avoid contact with many materials, particularly carbides, chlorates, nitrates, powdered metals and other combustible materials. May release flammable hydrogen gas.

Hazardous Decomposition Products

Forms hydrogen chloride gas when contacted with water.

11 TOXICOLOGICAL INFORMATION**Toxicological Information**

Data on this material and/or its components are summarized below.



SPENT SULFURIC ACID

Material Safety Data Sheet

Arkema Inc.

11 TOXICOLOGICAL INFORMATION

Sulfuric Acid

Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 2,140 mg/kg), moderately toxic if inhaled (rat 4-hr LC50 0.5 mg/l) and corrosive to rabbit eyes and skin.

Studies in humans show that this material is irritating to the upper respiratory tract and lungs with coughing, sore throat, chest pain and reduced pulmonary function in asthmatic subjects. No birth defects were noted in the offspring of mice or rabbits exposed by inhalation during pregnancy. The International Agency for Research on Cancer (IARC) has classified strong inorganic acid mists containing sulfuric acid as a known human carcinogen (Group 1). Genetic changes were observed in tests using animal cells, but not in bacteria. Both positive and negative responses have been reported in tests using yeast.

t-Butyl alcohol

Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 3,500 mg/kg), practically non-toxic if inhaled (rat 7-hr LC50 >15 to <30 mg/l) and non-irritating to rabbit skin.

This material is non-sensitizing and non-irritating to human skin, but is severely irritating to the eyes. Ingestion or inhalation of large amounts can result in narcosis and central nervous system depression, possibly leading to death. Repeated inhalation and oral exposures produced effects similar to those seen in long-term studies using rats and mice. Following long-term exposure in the drinking water, no notable tumor increases were found in rats and mice, other than a slight increase in kidney tumors seen in male rats. The significance of this finding is uncertain since hydrocarbon nephropathy and an increase in kidney tumors have been shown to result from a mechanism unique to male rats. Rats showed effects on the liver, kidney and urinary bladders, while mice showed proliferative changes in the thyroid. Oral administration or inhalation exposure of pregnant rats resulted in no significant reproductive or teratogenic effects even at doses that caused maternal toxicity. No teratogenic or fetotoxic effects were seen in pregnant mice exposed to high oral doses. No genetic changes were observed in tests using bacteria, animal cells or animals.

2-Methyl-2-butanol

Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 1,000 mg/kg) or absorbed through skin (rabbit LD50 1,720 mg/kg), practically non-toxic if inhaled (rat 6-hr LC50 >3,000 ppm), non-irritating to rabbit skin (non-occluded) and severely irritating to rabbit eyes.

No skin allergy was observed in guinea pigs following repeated exposure. Following repeated inhalation exposure in rats, mice and dogs, no treatment related effects were seen in mice. Excessive tearing and signs of central nervous system (CNS) depression were noted in both rats and dogs. Liver effects were noted in male rats and dogs. No genetic changes were observed in tests using bacteria, yeast, animal cells or human cells.

12 ECOLOGICAL INFORMATION

Ecotoxicological Information

Data on this material and/or its components are summarized below.

Sulfuric Acid

This material is slightly toxic to mosquito fish and bluegill sunfish (LC50 42-49 mg/l), shrimp (LC50 60-90 mg/l), zebra fish (24-hr LC50 82 mg/l) and Daphnia magna (24-hr EC50 29 mg/l). It is practically non-toxic to flounder (LC50 100-330 mg/l).



SPENT SULFURIC ACID

Material Safety Data Sheet

Arkema Inc.

12 ECOLOGICAL INFORMATION

t-Butyl alcohol

This material is generally non-toxic to aquatic organisms. Acute LC50 values for freshwater fish range from 3,000-6,400 mg/l, while acute values for invertebrates are greater than 5,000 mg/l. The EC50 value for green algae is 24,000 mg/l.

2-Methyl-2-butanol

This material is practically non-toxic to *Daphnia magna* (24-hr LC50 4,030 mg/l). The toxicity threshold was determined to be 410 mg/l for bacteria and 1,250 mg/l for green algae.

Chemical Fate Information

Data on this material and/or its components are summarized below.

t-Butyl alcohol

Based on its volatility and water solubility, this material is expected to disperse rapidly in the environment. In addition, it is likely to be moderately susceptible to biodegradation. It is not expected to bioaccumulate or bioconcentrate.

2-Methyl-2-butanol

This material is readily biodegradable (>70% biodegradable - Zahn-Wellens).

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Incineration is the recommended method for disposal observing all local, state and federal regulations.

14 TRANSPORT INFORMATION

DOT Name	Sulfuric acid, spent
DOT Technical Name	
DOT Hazard Class	8
UN Number	UN 1832
DOT Packing Group	PG II
RQ	Sulfuric acid = 1000 lbs.
DOT Special Information	Add subsidiary flammable label

15 REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health	Y	Fire	Y
Delayed (Chronic) Health	Y	Reactive	N
		Sudden Release of Pressure	N

The components of this product are either on the TSCA Inventory list or exempt as impurities.

Ingredient Related Regulatory Information:



SPENT SULFURIC ACID

Material Safety Data Sheet

SARA Reportable Quantities

Acetone
Sulfuric acid
Water
Di-tert-butyl peroxide
t-Butyl alcohol
2-Methyl-2-butanol
tert-Butyl hydroperoxide
Isobutylene

Arkema Inc.

CERCLA RQ	SARA TPQ
5000 LBS	
1000 LBS	1000 LBS
NE	
NE	NE
NE	NE
100 LBS	
NE	NE
100 LBS	

SARA Title III, Section 313

This product does contain chemical(s) which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. See Section 2

Sulfuric acid
t-Butyl alcohol

SARA Title III, Section 302

This product does contain chemical(s), as indicated below, currently on the Extremely Hazardous Substance List, Section 302, SARA Title III. See Section 2 for further details regarding concentrations and registry numbers.

Sulfuric acid

DEA - precursor element

This product does contain the following chemical(s), as indicated below, currently on the DEA Final Precursors and Essential Chemicals Listed Components list.

Acetone
Sulfuric acid

California Prop 65 - Carcinogen

This product does contain the following chemical(s), as indicated below, currently on the California list of Known Carcinogens.

Sulfuric acid

Massachusetts Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

2-Methyl-2-butanol
Acetone
Di-tert-butyl peroxide
Isobutylene
Sulfuric acid
t-Butyl alcohol
tert-Butyl hydroperoxide

New Jersey Right to Know

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.

2-Methyl-2-butanol
Acetone
Di-tert-butyl peroxide
Isobutylene
Sulfuric acid
t-Butyl alcohol
tert-Butyl hydroperoxide

Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List.

Acetone
Sulfuric acid



SPENT SULFURIC ACID

Material Safety Data Sheet

Arkema Inc.

Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List.

t-Butyl alcohol

Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List.

2-Methyl-2-butanol

Acetone

Di-tert-butyl peroxide

Isobutylene

Sulfuric acid

t-Butyl alcohol

tert-Butyl hydroperoxide

16 OTHER INFORMATION

Revision Information

Revision Date 02 JAN 2007

Revision Number 3

Supersedes Revision Dated 02-JAN-2007

Revision Summary

This product has been moved to the Functional Additives business unit.

Key

NE= Not Established NA= Not Applicable (R) = Registered Trademark

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Spent Acid

Printed: 09/03/2008 Page 1 of 5

Report To

Kate Alexander
Arkema Inc.
18000 Crosby Eastgate Rd.
Crosby, TX 77532

Account
ARKE-G

Project
410597

Results

Accredited	Parameter	Results	Units	RL	Flags	CAS	Bottle
028948	Waste Stream SSA						Received: 08/22/2008
	Liquid Aqueous	Collected by: K Alexander		Affiliation: Arkema Inc.		08/21/2008	13:45
ASTM D 2015							
AN	Heating Value	439	BTU/lb	100		Analyzed: RDH 08/23/2008 1130 QCgroup 285855	02
ASTM D3505 MOD							
	Density	1.3585	g/cc			Analyzed: MKV 08/26/2008 1130 QCgroup 286137	01
EPA 6020							
AN	TCLP Arsenic	0.0860	mg/L	0.0100		7440-38-2	10
AN	TCLP Barium	0.0164	mg/L	0.00500		7440-39-3	10
AN	TCLP Cadmium	ND	mg/L	0.00500		7440-43-9	10
AN	TCLP Chromium	2.67	mg/L	0.00500		7440-47-3	10
AN	TCLP Lead	ND	mg/L	0.00500		7439-92-1	10
AN	TCLP Selenium	ND	mg/L	0.0100		7782-49-2	10
AN	TCLP Silver	ND	mg/L	0.00500		7440-22-4	10
EPA 1010A							
AN	Flash Point (Reg. Limit 140.0 F)	<56	Degrees F	140		Analyzed: RED 08/25/2008 0930 QCgroup 285980	02
EPA 7470A							
AN	TCLP Mercury	ND	mg/L	0.00150		7439-97-6	11
EPA 9040C							
AN	Laboratory pH	<2 @ 15C	SU			Analyzed: MKV 08/29/2008 1310 QCgroup 286687	01
EPA 9056							
AN	Chloride	1250	mg/L	300		Analyzed: GDG 08/22/2008 1352 QCgroup 285983	01
AN	Fluoride	ND	mg/L	100			01
AN	Ortho-phosphate as P	39.0	mg/L	10.0			01
EPA Method 8270C							
AN	Acenaphthene	ND	ug/L	99900		83-32-9	14
AN	Acenaphthylene	ND	ug/L	200000		208-96-8	14
AN	Anthracene	ND	ug/L	99900		120-12-7	14
AN	Benzidine	ND	ug/L	9990		92-87-5	14
AN	Benzo(a)anthracene	ND	ug/L	99900		56-55-3	14
AN	Benzo(a)pyrene	ND	ug/L	99900		50-32-8	14
AN	Benzo(b)fluoranthene	ND	ug/L	300000		205-99-2	14
AN	Benzo(ghi)perylene	ND	ug/L	99900		191-24-2	14
AN	Benzo(k)fluoranthene	ND	ug/L	99900		207-08-9	14
AN	Benzyl Butyl phthalate	ND	ug/L	399000		85-68-7	14
AN	4-Bromophenyl phenyl ether	ND	ug/L	99900		101-55-3	14
AN	Di-n-butylphthalate	ND	ug/L	999000		84-74-2	14

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

Gulf Coast Region: 18096 Kings Row Ste H Houston TX 77058



ISO-17025 # 0637-01



NELAP-accredited #T104704201-08-TX



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Account
ARKE-GProject
410597

Kate Alexander
Arkema Inc.
18000 Crosby Eastgate Rd.
Crosby, TX 77532

Results

Accredited Parameter Results Units RL Flags CAS Bottle

028948 Waste Stream SSA

Received: 08/22/2008

Liquid Aqueous

Collected by: K Alexander

Affiliation: Arkema Inc.

08/21/2008 13:45

EPA Method 8270C

Analyzed: LCY 08/30/2008 1943 QCgroup 286970

AN	Parameter	Results	Units	RL	Flags	CAS	Bottle
AN	Indeno(1,2,3-cd)pyrene	ND	ug/L	99900		193-39-5	14
AN	Bis(2-chloroethoxy)methane	ND	ug/L	120000		111-91-1	14
AN	Bis(2-chloroethyl)ether	ND	ug/L	99900		111-44-4	14
AN	Bis(2-chloroisopropyl)ether	ND	ug/L	120000		108-60-1	14
AN	2-Chloronaphthalene	ND	ug/L	120000		91-58-7	14
AN	2-Chlorophenol	ND	ug/L	99900		95-57-8	14
AN	4-Chlorophenyl phenyl ethe	ND	ug/L	99900		7005-72-3	14
AN	Chrysene	ND	ug/L	99900		218-01-9	14
AN	Dibenz(a,h)anthracene	ND	ug/L	99900		53-70-3	14
AN	1,3-Dichlorobenzene	ND	ug/L	250000		541-73-1	14
AN	1,2-Dichlorobenzene	ND	ug/L	250000		95-50-1	14
AN	1,4-Dichlorobenzene	ND	ug/L	250000		106-46-7	14
AN	3,3'-Dichlorobenzidine	ND	ug/L	648000		91-94-1	14
AN	2,4-Dichlorophenol	ND	ug/L	99900		120-83-2	14
AN	2,6-Dichlorophenol	ND	ug/L	99900		87-65-0	14
AN	Diethyl phthalate	ND	ug/L	99900		84-66-2	14
AN	Dimethyl phthalate	ND	ug/L	99900		131-11-3	14
AN	2,4-Dimethylphenol	ND	ug/L	99900		105-67-9	14
AN	2,4-Dinitrophenol	ND	ug/L	300000		51-28-5	14
AN	2,4-Dinitrotoluene	ND	ug/L	99900		121-14-2	14
AN	2,6-Dinitrotoluene	ND	ug/L	99900		606-20-2	14
AN	1,2-DPH (as azobenzene)	ND	ug/L	99900		122-66-7	14
AN	Bis(2-ethylhexyl)phthalate	ND	ug/L	750000		117-81-7	14
AN	Fluoranthene	ND	ug/L	99900		206-44-0	14
AN	Fluorene	ND	ug/L	99900		86-73-7	14
AN	Hexachlorobenzene	ND	ug/L	99900		118-74-1	14
AN	Hexachlorobutadiene	ND	ug/L	99900		87-68-3	14
AN	Hexachlorocyclopentadiene	ND	ug/L	498000		77-47-4	14
AN	Hexachloroethane	ND	ug/L	300000		67-72-1	14
AN	Isophorone	ND	ug/L	99900		78-59-1	14
AN	p-Chloro-m-Cresol (4-Chloro-3-me	ND	ug/L	99900		59-50-7	14
AN	4,6-Dinitro-2-methylphenol	ND	ug/L	200000		534-52-1	14
AN	Naphthalene	ND	ug/L	99900		91-20-3	14
AN	Nitrobenzene	ND	ug/L	99900		98-95-3	14
AN	2-Nitrophenol	ND	ug/L	120000		88-75-5	14
AN	4-Nitrophenol	ND	ug/L	99900		100-02-7	14
AN	N-Nitrosodimethylamine	ND	ug/L	99900		62-75-9	14
AN	N-Nitrosodiphenylamine (as DPA	ND	ug/L	120000		86-30-6	14
AN	Di-n-octylphthalate	ND	ug/L	99900		117-84-0	14

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

Gulf Coast Region: 18096 Kings Row Ste H Houston TX 77058



ISO-17025 # 0637-01



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Report To

Kate Alexander
Arkema Inc.
18000 Crosby Eastgate Rd.
Crosby, TX 77532

Account
ARKE-G

Project
410597

Results

Accredited	Parameter	Results	Units	RL	Flags	CAS	Bottle
028948	Waste Stream SSA	Received: 08/22/2008					
	Liquid Aqueous	Collected by: K Alexander	Affiliation:	Arkema Inc.	08/21/2008	13:45	
EPA Method 8270C		Analyzed: LCY		08/30/2008	1943	QCgroup	286970
AN	Pentachlorophenol	ND	ug/L	99900		87-86-5	14
AN	Phenanthrene	ND	ug/L	99900		85-01-08	14
AN	Phenol	ND	ug/L	120000		108-95-2	14
AN	N-Nitrosodi-n-propylamine	ND	ug/L	99900		621-64-7	14
AN	Pyrene	ND	ug/L	99900		129-00-0	14
AN	1,2,4-Trichlorobenzene	ND	ug/L	99900		120-82-1	14
AN	2,4,6-Trichlorophenol	ND	ug/L	99900		88-06-2	14
AN	2,4,5-Trichlorophenol	ND	ug/L	99900		95-95-4	14
SM 2310 B, (4a) 20th		Analyzed: RED		09/02/2008	0715	QCgroup	286894
AN	Acidity	13400000	uEq/L	50000			01
SM 2540 G, 20th Ed.		Analyzed: AAT		08/25/2008	1450	QCgroup	286019
AN	Total Solids	56.5	%	0.1			01
SM2540G		Analyzed: AAT		08/25/2008	1450	QCgroup	286019
AN	Moisture	43.5	%	0.1			01
	* Dry Weight Basis						



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Account
ARKE-GProject
412866

Kate Alexander
Arkema Inc.
18000 Crosby Eastgate Rd.
Crosby, TX 77532

Results

Accredited	Parameter	Results	Units	RL	Flags	CAS	Bottle
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034007 Spent Sulfuric Acid

Received: 09/11/2008

Liquid Aqueous

Collected by: Client

Affiliation: Arkema Inc.

09/09/2008 12:00

EPA Method 8260B

Analyzed: JLH 09/12/2008 1544 QCgroup 288550

AN	Acrolein	ND	ug/L	1500		107-02-8	01
AN	Acrylonitrile	ND	ug/L	500		107-13-1	01
AN	Benzene	ND	ug/L	500		71-43-2	01
AN	Bromobenzene	ND	ug/L	500		108-86-1	01
AN	Bromochloromethane	ND	ug/L	500		74-97-5	01
AN	Bromodichloromethane	ND	ug/L	500		75-27-4	01
AN	Bromoform	ND	ug/L	500		75-25-2	01
AN	Bromomethane (Methyl Bromi	ND	ug/L	500		74-83-9	01
AN	tert-Butylbenzene	ND	ug/L	500		98-06-6	01
AN	sec-Butylbenzene	ND	ug/L	500		135-98-8	01
AN	n-Butylbenzene	ND	ug/L	500		104-51-8	01
AN	tert-Butylmethylether (MTBE)	3040	ug/L	500		1634-04-4	01
AN	Carbon Tetrachloride	ND	ug/L	500		56-23-5	01
AN	Chlorobenzene	ND	ug/L	500		108-90-7	01
AN	Chloroethane	ND	ug/L	500		75-00-3	01
AN	2-Chloroethylvinyl ether	ND	ug/L	500		110-75-8	01
AN	Chloroform	ND	ug/L	500		67-66-3	01
AN	Chloromethane	ND	ug/L	500		74-87-3	01
AN	1,2-Dibromo-3-chloropropane	ND	ug/L	500		96-12-8	01
AN	2-Chlorotoluene	ND	ug/L	500		95-49-8	01
AN	4-Chlorotoluene	ND	ug/L	500		106-43-4	01
AN	Dibromochloromethane	ND	ug/L	500		124-48-1	01
AN	1,2-Dibromoethane	ND	ug/L	500		106-93-4	01
AN	Dibromomethane	ND	ug/L	500		74-95-3	01
AN	1,3-Dichlorobenzene	ND	ug/L	500		541-73-1	01
AN	1,2-Dichlorobenzene	ND	ug/L	500		95-50-1	01
AN	1,4-Dichlorobenzene	ND	ug/L	500		106-46-7	01
AN	Dichlorodifluoromethane	ND	ug/L	500		75-71-8	01
AN	1,1-Dichloroethane	ND	ug/L	500		75-34-3	01
AN	1,2-Dichloroethane	ND	ug/L	500		107-06-2	01
AN	trans-1,2-Dichloroethene	ND	ug/L	500		156-60-5	01
AN	cis-1,2-Dichloroethene	ND	ug/L	500		156-59-2	01
AN	1,1-Dichloroethylene	ND	ug/L	500		75-35-4	01
AN	1,2-Dichloropropane	ND	ug/L	500		78-87-5	01
AN	2,2-Dichloropropane	ND	ug/L	500		594-20-7	01
AN	1,3-Dichloropropane	ND	ug/L	500		142-28-9	01
AN	cis-1,3-Dichloropropene	ND	ug/L	500		10061-01-5	01
AN	trans-1,3-Dichloropropene	ND	ug/L	500		10061-02-6	01

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

Gulf Coast Region: 18096 Kings Row Ste H Houston TX 77058



ISO-17025 # 0637-01



NELAP-accredited #T104704201-08-TX



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Account
ARKE-GProject
412866

Kate Alexander
Arkema Inc.
18000 Crosby Eastgate Rd.
Crosby, TX 77532

Results

Accredited	Parameter	Results	Units	RL	Flags	CAS	Bottle
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034007 Spent Sulfuric Acid

Received: 09/11/2008

Liquid Aqueous

Collected by: Client

Affiliation: Arkema Inc.

09/09/2008 12:00

EPA Method 8260B

Analyzed: JLH 09/12/2008 1544 QCgroup 288550

AN	1,1-Dichloropropene	ND	ug/L	500		563-58-6	01
AN	Ethylbenzene	ND	ug/L	500		100-41-4	01
AN	Hexachlorobutadiene	ND	ug/L	500		87-68-3	01
AN	Isopropylbenzene (Cumene)	ND	ug/L	500		98-82-8	01
AN	p-Isopropyltoluene	ND	ug/L	500		99-87-6	01
AN	Methyl ethyl ketone (Butanone)	22500	ug/L	2500		78-93-3	01
AN	Methyl Isobutyl Ketone	630	ug/L	500		108-10-1	01
AN	Methylene chloride	ND	ug/L	500		75-09-2	01
AN	Naphthalene	ND	ug/L	500		91-20-3	01
AN	n-Propylbenzene	ND	ug/L	500		103-65-1	01
AN	Styrene	ND	ug/L	500		100-42-5	01
AN	1,1,2,2-Tetrachloroethane	ND	ug/L	500		79-34-5	01
AN	1,1,1,2-Tetrachloroethane	ND	ug/L	500		630-20-6	01
AN	Tetrachloroethylene	ND	ug/L	500		127-18-4	01
AN	Toluene	4260	ug/L	500		108-88-3	01
AN	1,2,4-Trichlorobenzene	ND	ug/L	500		120-82-1	01
AN	1,2,3-Trichlorobenzene	ND	ug/L	1000		87-61-6	01
AN	1,1,1-Trichloroethane	ND	ug/L	500		71-55-6	01
AN	1,1,2-Trichloroethane	ND	ug/L	500		79-00-5	01
AN	Trichloroethylene	ND	ug/L	500		79-01-6	01
AN	Trichlorofluoromethane	ND	ug/L	500		75-69-4	01
AN	1,2,3-Trichloropropane	ND	ug/L	500		96-18-4	01
AN	1,2,4-Trimethylbenzene	ND	ug/L	500		95-63-6	01
AN	1,3,5-Trimethylbenzene	ND	ug/L	500		108-67-8	01
AN	Vinyl chloride	ND	ug/L	500		75-01-4	01
AN	m- and p-Xylene	ND	ug/L	500		108-38-3	01
AN	o-Xylene	ND	ug/L	500		95-47-6	01

EPA Method 8260B

Analyzed: JLH 09/15/2008 1512 QCgroup 288694

AN	Acetone	1320000	ug/L	250000		67-64-1	01
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Sample Preparation**034007 Spent Sulfuric Acid**

Received: 09/11/2008

EPA Method 8260B

Analyzed: JLH 09/12/2008 1544

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

Gulf Coast Region: 18096 Kings Row Ste H Houston TX 77058



ISO-17025 # 0637-01



NELAP-accredited #T104704201-08-TX



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EPAHO109000727

PA-3380
National Oilwell Varco



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/16/2009

Dear Tilden Gaspard

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3380

Expiration Date 6/16/2011

Generator: National Oilwell Varco

Address: 4310 N Sam Houston Pkwy E.
Houston, TX 77032

Waste Information

Name of Waste: Recyclable Used Oil

TCEQ Waste Code #: Rec

Container Type:

Detailed Description of Process Generating Waste:

Used oil removed from returning units from

Color: Varies

Odor: None

pH: 5-10

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

2B/mm



<input type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input checked="" type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
--	--

SECTION 1: Generator Information

Company: National Oilwell Varco
 Address: 4310 N Sam Houston Pkwy E.
 City: Houston State: TX Zip: 77032
 Contact: Tilden Gaspard Title: Management
 Phone Number: 713-482-0605 Fax Number: 713-482-0699
 24/hr Phone Number: 936-827-3614
 US EPA ID No: TXCESQG
 State ID No: CESQG SIC Code: _____

SECTION 2: Billing Information - ☐ Same as Above

Company: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Contact: _____ Title: _____
 Phone Number: _____ Fax Number: _____

SECTION 3: General Description of the Waste

Name of Waste: Recyclable Used Oil
 Detailed Description of Process Generating Waste: _____

Used oil removed from returning units from

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination
 Color: Varies Odor: None

Specific Gravity (water=1): .7-.8 Density: 8-Jul lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☐ One-Time

Quantity: 1000-3000

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Na

☐ Yes ☒ No

NA

☐ Yes ☒ No

NA

Recyclable

Recyclable Used Oil

Class: NA **UN/NA:** NA **PG :** NA **RQ:** NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>160		5-10		0 <u>mg/l</u>		0 <u>mg/l</u>		98-100 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
Na	mg/l	Na	mg/l	0	mg/l	0	mg/l	0	mg/l

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	<u>Na</u>
TCLP Volatiles:	<u>Na</u>
TCLP Semi-Volatiles:	<u>Na</u>
Reactivity:	<u>Na</u>
Corrosivity:	<u>Na</u>
Ignitability:	<u>Na</u>

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☒ YES

☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☒ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Barge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☒ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Tilden Gaspard

Date: _____

6/11/2009

Printed Name/Title: _____

Tilden Gaspard

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: _____	
Date: 6-15-09	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected
Approval Number: 3380	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

CES Pays

2. Contamination Limits (maximum limit before surcharges apply):

fails CHlor-d-tect
Flash <120 F

3. Surcharge Pricing:

Call sales rep (Dan Bowman 713-854-6150)

4. Special Testing Requirements:

TOC, metals, flash, chlor-d-tect, Viscosity,

5. Treatment and Handling Protocol:

Used oil

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

Used oil tests

8. Management for Product Recovered/Recycled (if applicable):

sell oil portion in used oil market

3381

Main Intl Ship Repair



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/17/2009

Dear Glenn

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3381

Expiration Date 6/17/2011

Generator: Malin International Ship Repair

Address: 320 77th St. - Pier 34
Galveston, TX 77554

Waste Information

Name of Waste: Recyclable oily water

TCEQ Waste Code #: Rec

Container Type:

Detailed Description of Process Generating Waste:

Oily water/blige water removed from a barge prior to repair

Color: Varies

Odor: None

pH: 4-9

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: Malin International Ship Repair
Address: 320 77th St.- Pier 39
City: Galveston State: TX Zip: 77554
Contact: Glenn Pitts Title: Agent
Phone Number: 281-960-2712 Fax Number: _____
24/hr Phone Number: _____
US EPA ID No: TXCESQG
State ID No: CESQG SIC Code: _____

SECTION 2: Billing Information - ☐ Same as Above

Company: Dynamic Rentals
Address: 2920 East X Street
City: La Porte, State: TX Zip: 77571
Contact: Glenn Pitts Title: _____
Phone Number: 281-960-2712 Fax Number: _____

SECTION 3: General Description of the WasteName of Waste: Recyclable Oily Water

Detailed Description of Process Generating Waste:

Oily water/bilge water removed from a barge prior to repair

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: Varies Odor: NoneSpecific Gravity (water=1): .9-1 Density: 8-8.34 lbs/galDoes this material contain any total phenolic compounds? ☐ Yes ☒ NoDoes this material contain any para substituted phenolic compounds? ☐ Yes ☒ NoIs the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ Single-phase ☒ Multi-phaseContainer Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)Frequency: ☒ Weekly ☐ Monthly ☐ Yearly ☐ One-TimeQuantity: approx 30,000

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. None- Generator's knowledge

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals: Na-None in Process

TCLP Volatiles: Na-None in Process

TCLP Semi-Volatiles: Na-None in Process

Reactivity: Na-None in Process

Corrosivity: Na-None in Process

Ignitability: Na-None in Process

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☒ YES ☐ NO

If "Yes", complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☒ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☒ Bilge water
- ☐ Rinse/wash waters from petroleum sources

Is this a USEPA "Hazardous Waste" per 40CFR 261.3?

☐ Yes ☒ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is It:

☐ 0001 (Ignitable)

☐ D002 (Corrosive)

☐ D003 (Reactive)

Characteristic for Toxic Metals:

0004

☐ D005

D806

☐ D007

DOOG

□ B009

0010

□.D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Na

Is this an "F" or "K" Listed waste or mixed with one?

☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Na

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

☐ **Yes.**☒ No

If "Yes", then please list ALL applicable codes:

Na

Texas State Waste Code Number:

Recyclable

Proper US DOT Shipping Name:

Recyclable Oily Water Mixture

Class: Na **UN/NA:**

Na

UN/NA:

Na

PG

PG :

PG :

PG :

RQ

Na

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>200		4-9		0 <u>mg/l</u>		0 <u>mg/l</u>		0-3 <u>%</u>	
Oil & Grease		TOC		Zinc		Copper		Nickel	
>1500	<u>mg/l</u>	<5000	<u>mg/l</u>	0	<u>mg/l</u>	0	<u>mg/l</u>	0	<u>mg/l</u>

SECTION 4: Physical and Chemical Data

[illegible]

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
- Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L
- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
- ☐ Metals Subcategory
 - ☒ Oils Subcategory
 - ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: _____

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 6-16-09

Approval Number: 3381

☒ Approved☐ Rejected



**CES Environmental
Services, Inc.**

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

.09/gal <5000 TOC, \$70/hr plus FSC

2. Contamination Limits (maximum limit before surcharges apply):

Fail chlor d tect, flash <120

3. Surcharge Pricing:

Call Dan Bowman if surcharges should apply

4. Special Testing Requirements:

Flash, CHlor d tect, phenol, TOC

5. Treatment and Handling Protocol:

Oily water

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

Na

8. Management for Product Recovered/Recycled (if applicable):

Na

3382
National Oilwell Varco



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/17/2009

Dear Tilden Gaspard

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3382

Expiration Date 6/17/2011

Generator: National Oilwell Varco

Address: 4310 N Sam Houston Pkwy E.
Houston, TX 77032

Waste Information

Name of Waste: Recyclable Oily Rags

TCEQ Waste Code #:

Container Type:

Detailed Description of Process Generating Waste:

Oily rags and absorbents from cleaning up oil spills

Color: Varies

Odor: None

pH: 5-10

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000745



DB/mm
Recycle - PACES

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input checked="" type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
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SECTION 1: Generator Information

Company: National Oilwell Varco
Address: 4310 N Sam Houston Pkwy E.
City: Houston State: TX Zip: 77032
Contact: Tilden Gaspard Title: Management
Phone Number: 713-482-0605 Fax Number: 713-482-0699
24/hr Phone Number: 936-827-3614
US EPA ID No: TXCESQG
State ID No: CESQG SIC Code: _____

SECTION 2: Billing Information - ☐ Same as Above

Company: _____
Address: _____
City: _____ State: _____ Zip: _____
Contact: _____ Title: _____
Phone Number: _____ Fax Number: _____

SECTION 3: General Description of the Waste

Name of Waste: Recyclable Oily Rags

Detailed Description of Process Generating Waste:

Oily rags and absorbents from cleaning up oil spills

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: Varies Odor: None

Specific Gravity (water=1): 1-1.3 Density: 8.5-9 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☒ Other (explain)

Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☐ One-Time

Quantity: 1-12 dms or 1-5 cy boxes

☐ Yes ☒ No

If "Yes", Is it:

☐ D002 (Corrosive)

☐ D003 (Reactive)

D004

☐ D005

☐ D006

0007

☐ D008

D009

☐ D010

☐ D011

Na

☐ Yes ☒ No

NA

☐ Yes ☒ No

NA

Recyclable

Recyclable Used oil filters

NA

UN/NA:

NA

PG

NA

RQ:

NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>160		5-10		0 <u>mg/l</u>		0 <u>mg/l</u>		98-100	%
Oil & Grease		TOC		Zinc		Copper		Nickel	
Na	<u>mg/l</u>	Na	<u>mg/l</u>	0	<u>mg/l</u>	0	<u>mg/l</u>	0	<u>mg/l</u>

SECTION 4: Physical and Chemical Data

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	<u>Na</u>
TCLP Volatiles:	<u>Na</u>
TCLP Semi-Volatiles:	<u>Na</u>
Reactivity:	<u>Na</u>
Corrosivity:	<u>Na</u>
Ignitability:	<u>Na</u>

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?
If 'Yes', complete this section.

☐ YES ☒ NO

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: _____

6/11/2009

Printed Name/Title: _____

Tilden Gaspard

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: <u><i>Tilden Gaspard</i></u>	
Date: <u>6-17-09</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected
Approval Number: <u>3382</u>	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

\$40/dm, \$100/cy
\$275/load trans

2. Contamination Limits (maximum limit before surcharges apply):

Non-Conforming to profile

3. Surcharge Pricing:

Call sales rep (Dan Bowman 713-854-6150)

4. Special Testing Requirements:

None

5. Treatment and Handling Protocol:

recycle to maxia box

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

NA

8. Management for Product Recovered/Recycled (if applicable):

NA

3383

National Oilwell Varco



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/17/2009

Dear Tilden Gaspard

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3383

Expiration Date 6/17/2011

Generator: National Oilwell Varco

Address: 4310 N Sam Houston Pkwy E.
Houston, TX 77032

Waste Information

Name of Waste: Oily water

TCEQ Waste Code #: Rec

Container Type:

Detailed Description of Process Generating Waste:

Oily water from washing rental generators

Color: Brown to black **Odor:** Slight Hydrocarbon **pH:** 5-10

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



DB/mm
Recycle
Houston

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input checked="" type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
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SECTION 1: Generator Information

Company: National Oilwell Varco
Address: 4310 N Sam Houston Pkwy E.
City: Houston State: TX Zip: 77032
Contact: Tilden Gaspard Title: Management
Phone Number: 713-482-0605 Fax Number: 713-482-0699
24/hr Phone Number: 936-827-3614
US EPA ID No: TXCESQG
State ID No: CESQG SIC Code: _____

SECTION 2: Billing Information - ☐ Same as Above

Company: _____
Address: _____
City: _____ State: _____ Zip: _____
Contact: _____ Title: _____
Phone Number: _____ Fax Number: _____

SECTION 3: General Description of the Waste

Name of Waste: Oily Water
Detailed Description of Process Generating Waste:
Oily water from washing rental generators

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: Brown to Black Odor: Slight Hydrocarbon

Specific Gravity (water=1): .9-1 Density: 7.5-8 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☐ One-Time

Quantity: 1000-1500

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Na

☐ Yes ☒ No

NA

☐ Yes ☒ No

NA

Recyclable

Recyclable Oily Water Mixture

Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>160		5-10		0 <u>mg/l</u>		0 <u>mg/l</u>		0-3 <u>%</u>	
Oil & Grease		TOC		Zinc		Copper		Nickel	
>1500	<u>mg/l</u>	<30000	<u>mg/l</u>	0	<u>mg/l</u>	0	<u>mg/l</u>	0	<u>mg/l</u>

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	CES Lab will test
TCLP Volatiles:	Na
TCLP Semi-Volatiles:	Na
Reactivity:	Na
Corrosivity:	Na
Ignitability:	Na

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☒ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☒ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Tilden Gaspard

Date: _____

6/11/2009

Printed Name/Title: _____

Tilden Gaspard

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Robert H. Hines

Date: 6-17-09

☒ Approved

☐ Rejected

Approval Number: _____

3383



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

.17/gal up to 30,000 TOC (\$250 min)

2. Contamination Limits (maximum limit before surcharges apply):

>30,000 TOC

3. Surcharge Pricing:

Call sales rep (Dan Bowman 713-854-6150)

4. Special Testing Requirements:

TOC, metals, flash, chlor-d-tect on oil phase

5. Treatment and Handling Protocol:

Oily water treatment

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

Used oil tests

8. Management for Product Recovered/Recycled (if applicable):

sell oil portion in used oil market

3384

C & C Lumber Inc



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/17/2009

Dear **Ron Kohler**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3384

Expiration Date 6/17/2011

Generator: C & C Lumber Inc.

Address: 1772 Hwy 105 E
Cleveland, TX 77327

Waste Information

Name of Waste: Dirt and oil mixture w/oily debris

TCEQ Waste Code #: CESQ4891

Container Type:

Detailed Description of Process Generating Waste:

Spill clean up on dirt - hydraulic oil

Color: Black

Odor: Hydraulic

pH: Solid

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000761



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

OS Houston
4B/mm
red BIA

SECTION 1: Generator Information

Company: C & C Lumber Inc.
Address: 1772 Hwy 105 East
City, State, Zip: Cleveland Tx. 77327
Contact: Pam Patterson Title: Site Mgr.
Phone No: 936-298-3246 Fax No: _____
24/hr Phone: _____
U.S. EPA I.D. No: CESQ
State I.D. CESQ SIC Code: _____

SECTION 2: Billing Information - ☐ Same as Above

Company: Select Environmental
Address: 223 McAtee Dr.
City, State, Zip: Houston Tx. 77029
Contact: Kevin White Title: Sales
Phone No: 281-960-3967 Fax No: 713-255-1761

SECTION 3: General Description of the Waste

Name of Waste: Dirt + Oil mixture w/ oily debris
Detailed Description of Process Generating Waste: Spill clean up on dirt - hydraulic oil

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: Black Odor: Hydraulic

Specific Gravity (water=1): _____ Density: _____ lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size: 55 gal. _____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly

Number of Units (containers): _____ Other: one time

Texas State Waste Code No: CESQ4891

Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated material

Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point <u>NA</u>	pH <u>5.1</u>	Reactive Sulfides <u>0</u> mg/l	Reactive Cyanides <u>0</u> mg/l	Solids <u>100</u> %
Oil & Grease <u>>1500</u> mg/l	TOC <u>NA</u> mg/l	Zinc <u>0</u> mg/l	Copper <u>0</u> mg/l	Nickel <u>0</u> mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
<u>Dirt</u>	<u>80%</u>	
<u>Debris</u>	<u>10%</u>	
<u>oil</u>	<u>10%</u>	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

std

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

Analytical

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: /

TCLP Volatiles: /

TCLP Semi-Volatiles: /

Reactivity: /

Corrosivity: /

Ignitability: /

SECTION 9: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: 6-16-09

Printed Name/Title: Ron Patterson

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [Signature]

Date: 6-17-09

Approved

Rejected

Approval Number: 3384

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☒ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

\$65/dm + trans + fsc

2. **Contamination Limits (maximum limit before surcharges apply):**

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

No free liquids

5. **Treatment and Handling Protocol:**

Class 1 Solids

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable):

--

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536
Phone: (281)-476-4534 Fax: (281)-476-4406

Select Environmental
223 McCarty Dr.
Houston, TX 77044

Phone: (713) 672-4500
Fax: (713) 255-1761

Attn: Kevin White

- CERTIFICATE OF RESULTS -

MES Lab#: 9050078
Client Sample ID: C & C Solids
Extended ID: Prj: C & C Lumber, Dayton, TX

Sample Collect Date: 5/6/2009
Sample Receipt Date: 5/7/2009 @ 2:00:00 PM

Sample Type: Grab

Test Group / Method

Total Petroleum Hydrocarbons Solid Method: TNRCC 1005				Analyst: HDG Date / Time
	MDL	Result	Units	
C6 - C12 Hydrocarbons	4	< 4	mg/kg	5/21/2009 / 4:42 PM
>C12 - C28 Hydrocarbons	8	76000	mg/kg	5/21/2009 / 4:42 PM
>C28 - C36 Hydrocarbons	8	66500	mg/kg	5/21/2009 / 4:42 PM
Total TPH	20	142000	mg/kg	5/21/2009 / 4:42 PM
BTEX Method: SW-846 8021B				Analyst: HDG Date / Time
	MDL	Result	Units	
Benzene	0.5	< 0.5	mg/kg	5/20/2009 / 7:12 PM
Toluene	0.5	< 0.5	mg/kg	5/20/2009 / 7:12 PM
Ethyl benzene	0.5	< 0.5	mg/kg	5/20/2009 / 7:12 PM
M+P-Xylene	0.5	< 0.5	mg/kg	5/20/2009 / 7:12 PM
o-Xylene	0.5	< 0.5	mg/kg	5/20/2009 / 7:12 PM
Total Recoverable Metals (RCRA) Method: SW-846 6010B				Analyst: JCA Date / Time
	MDL	Result	Units	
Arsenic	0.341	1.46	mg/kg	5/12/2009 / 1:28 PM
Barium	0.01	216	mg/kg	5/12/2009 / 1:28 PM
Cadmium	0.049	1.12	mg/kg	5/12/2009 / 1:28 PM
Chromium	0.049	15.2	mg/kg	5/12/2009 / 1:28 PM
Lead	0.122	21.4	mg/kg	5/12/2009 / 1:28 PM
Selenium	0.585	< 0.585	mg/kg	5/12/2009 / 1:28 PM
Silver	0.049	< 0.049	mg/kg	5/12/2009 / 1:28 PM
Mercury (RCRA, Automated CVAA) Method: SW-846 7471A				Analyst: JCA Date / Time
	MDL	Result	Units	
Mercury	0.033	< 0.033	mg/kg	5/12/2009 / 5:00 PM

Report Date: 28-May-09

Page 1 of 2

- CERTIFICATE OF RESULTS -


MES Lab#: 9060078
Client Sample ID: C & C Solids
Extended ID: Prj: C & C Lumber, Dayton, TX

Sample Collect Date: 5/8/2009
Sample Receipt Date: 5/7/2009 @ 2:00:00 PM

Sample Type: Grab

Reactivity, Recoverable Hydrogen Cyanide				Analyst: SA
Method: 7.3.3.2	MDL	Result	Units	Date / Time
Hydrogen Cyanide	0.25	< 0.25	mg/kg	5/13/2009 / 2:00 PM
Reactivity, Recoverable Hydrogen Sulfide				Analyst: HDG
Method: 7.3.4.2	MDL	Result	Units	Date / Time
Hydrogen Sulfide	0.25	< 0.25	mg/kg	5/12/2009 / 11:30 AM
Corrosivity: pH				Analyst: DB
Method: SW-846 9045	MDL	Result	Units	Date / Time
pH		7.62		5/8/2009 / 8:45 AM
Ignitability				Analyst: DEB
Method: SW-846 1010	MDL	Result	Units	Date / Time
Flashpoint		>150	deg F	5/8/2009 / 10:10 AM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit


John Keller, Ph.D., Lab Director

Thursday, May 28, 2009
Date

3385-
Harvest Pipeline Co



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/17/2009

Dear Ashley Washington

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3385

Expiration Date 6/17/2011

Generator: Harvest Pipeline Company

Address: 10201 CR 359
Sweeny, TX 77480

Waste Information

Name of Waste: Oily water

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Oily water from tank clean out

Color: Brown to black **Odor:** Hydrocarbon **pH:** 4-11

Physical State:

Incompatibilities: None known

Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000772

JC
JRRecycle
Houston

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079807 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: Harvest Pipeline Company
Address: 10201 CR 359
City: Sweeny State: TX Zip: 77480
Contact: Ashley Washington Title:
Phone Number: 979-548-2144 Fax Number:
24/hr Phone Number: 979-490-8206
US EPA ID No: N/A
State ID No: N/A SIC Code:

SECTION 2: Billing Information - ☒ Same as Above

Company:
Address:
City: State: Zip:
Contact: Title:
Phone Number: Fax Number:

SECTION 3: General Description of the Waste

Name of Waste: Oily Water
Detailed Description of Process Generating Waste:

Oily Water from tank clean out

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination
Color: Brown to black Odor: hydrocarbon

Specific Gravity (water=1): .99 -1 Density: 8.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☒ Yearly ☐ One-Time

Quantity: 10

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☒ D009
☐ D010 ☐ D011

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

Texas State Waste Code Number: RECYCLE _____

Proper US DOT Shipping Name:		Recyclable Hydrocarbon & Water Mixture			
Class:	N/A	UN/NA:	N/A	PG :	N/A
				RQ:	N/A

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>150		4-11		BRL <u>mg/l</u>		BRL <u>mg/l</u>		0-1 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
>1500	<u>mg/l</u>	N/A	<u>mg/l</u>	N/A	<u>mg/l</u>	N/A	<u>mg/l</u>	N/A	<u>mg/l</u>

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D

SECTION 6: Attached Supporting DocumentsList all documents, notes, data and/or analysis attached to this form as part of the waste approval package. None**SECTION 7: Incompatibilities**

Please list ALL Incompatibilities (if any):

None Known**SECTION 8: Generator's Knowledge Documentation**Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:TCLP Metals: Not RegulatedTCLP Volatiles: Not RegulatedTCLP Semi-Volatiles: Not RegulatedReactivity: Non-ReactiveCorrosivity: Non-CorrosiveIgnitability: >200**SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)**Is this material a wastewater or wastewater sludge?
If 'Yes', complete this section.☒ YES☒ NO

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☒ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Ashley WashingtonDate: 6/17/09Printed Name/Title: Ashley Washington / Texas Operations Manager**CES USE ONLY (DO NOT WRITE IN THIS SPACE)**Compliance Officer: Robert J. ThynDate: 6-17-09Approval Number: 3585☒ Approved☐ Rejected

FAX
**HARVEST
PIPELINE**

To: **From:** Ashley Washington Texas Operations Manager
Attention: Ms. Jennifer Rust **Phone:** 979-490-8201 **Harvest Pipeline Company**
CES ENVIRONMENTAL **Cell:** 979-482-4249
Attention: JENNIFER **Date:** ~~6/17/09~~ 6/17/09
Fax 713.748.8664 **CC:**
Phone: 713.767.1460 **Pages including cover:** 7

Urgent ☒ For Review☐ Please Comment☐ Please Reply☐ Please Recycle● **Comments:****Jennifer**

Here are the signed documents and I apologize to you for the delay in returning them to you in a timely manner. Hopefully we can move forward with the project.

Ashley Washington

Filling the unforgetfull minute with 60 seconds! (RK)



4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Joe Camp, Gary Brauckman
CC: Matt Bowman, Prabhaker, Clint Hopkins, Sam Brown
From: Miles Root

Date: 6/12/09

Lab Memo: 09-114

Subject: **Harvest Pipeline Evaluation 0609-17**

A sample of oil and water from Harvest Pipeline, Pearsall, TX, has been evaluated for processing at CES. This sample is evaluation 0609-17 and represents a one-time acquisition of approximately 100 barrels of oil mixed with water. We have the potential to receive essentially the water phase with a slight chance of acquiring the oil portion. Overall, we can take and process the water, with the oil needing further processing.

This sample is around 70% oil and is two phases. The oil is more like blended asphalt oil from its odor and is black in appearance. It is rather sticky and contains both suspended chunks or solids and some sludge that has settled out to the bottom of the container. This oil portion really needs to be centrifuged to remove these impurities. A chlor-d-tect on this oil is only 100 ppm. It blends easily with black oil and is totally miscible with toluene.

The water can be phase separated out with just a little bit of the oil remaining. I was able to treat a clean looking water sample. The pH of this water is 7 and it does not flash below 140 deg F. The water treats very easily and forms a nice large floc which readily falls out. The treated water has no phenols, TOC of 1438 ppm and very low metals.

The acquisition of this water phase is highly recommended and it should pose no issues for us. The oil will need to be centrifuged for us to market it properly. The table below summarizes the analytical testing.

Harvest Pipeline Evaluation 0609-17	
pH	7
Phenols, ppm	0
TOC, mg/L	1438
Odor	Acceptable
Flash Point, deg F, on water	>140
Oil, vol%	70
Chlor-d-tect. Ppm	100
Blendability with black oil	OK
Treatability	Good
Metals, ppm	
Ni	0.000
Zn	0.000
Cu	0.004
Cd	0.020
Cr	0.019

Henri Delauney
713-289-2671
Ashley Washington
979-482-4249



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$20/gal oil & water
\$70/hr transporting

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

call Joe Camp with questions

4. Special Testing Requirements:

clotted & flash on oil; % solids, water, oil, pH,

5. Treatment and Handling Protocol:

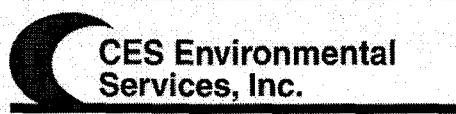
Decant oil from water. Water to WWTP

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☒ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

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3386

TT Barge



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/17/2009

Dear Accounts Payable- Donna Landry

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3386

Expiration Date 6/17/2011

Generator: T.T. Barge (Mile 183)

Address: 7324 Hwy. 405
Donaldsonville, LA 70346

Waste Information

Name of Waste: Non hazardous wastewater

TCEQ Waste Code #: OUTS1011

Container Type:

Detailed Description of Process Generating Waste:

cleaning of barge

Color: Varies

Odor: none

pH: 8-11

Physical State:

Incompatibilities: None known

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000782

JUN-16-2009 15:36

CES ENVIROMENTAL

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Houston
OL

DC/MM



<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 90948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

SECTION 1: Generator Information

Company: T.T. Barge Mile 183
 Address: 7324 Highway 405
 City: Donaldsonville State: LA Zip: 70346
 Contact: Chuck Metzler Title: E/S
 Phone Number: 225.473.8222 Fax Number: 225-473-2199
 24/hr Phone Number: 800-969-8860
 US EPA ID No: LAD980870794
 State ID No: D0022 SIC Code: NA

SECTION 2: Billing Information - ☐ Same as Above

Company: T.T. Barge Attn: Accounts Payable
 Address: 19368 Hwy 36
 City: Convington State: LA Zip: 70433
 Contact: Donna Landry Title: _____
 Phone Number: 225-473-8222 Fax Number: 225-473-2199

SECTION 3: General Description of the WasteName of Waste: Non hazardous wastewater

Detailed Description of Process Generating Waste:

cleaning of barge

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: varies Odor: noneSpecific Gravity (water=1): 1 Density: 8.34 lbs/galDoes this material contain any total phenolic compounds? ☐ Yes ☒ NoDoes this material contain any para substituted phenolic compounds? ☐ Yes ☒ NoIs the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phaseContainer Type: ☐ Drum ☐ Tank ☒ Truck ☐ Other (explain)Frequency: ☒ Weekly ☐ Monthly ☐ Yearly ☐ One-TimeQuantity: 3

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CES ENVIROMENTAL

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P.005

Is this a USEPA "Hazardous Waste" per 40CFR 261.9?

☐ Yes ☒ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it:

☐ D001 (Ignitable)

D002 (Corrosive)

☐ D003 (Reactive)

Characteristic for Toxic Metals:

☐ D004

☐ DOOS

☐ D006

☐ 0007

☐ 0008

0009

DO10

0011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" listed waste or mixed with one?

☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(a) or (f)? ☐ Yes ☒ No

☐ Yes☒ NO

If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number:

OUTS1011

Proper US DOT Shipping Name:

Non RCRA Non Regulated Wastewater

Class: NA **UN/NA:**

NA

PG:

NA

RQ:

NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>150		8-11		NA <u>mg/l</u>		NA <u>mg/l</u>		0-2 <u>%</u>	
Oil & Grease		TOC		Zinc		Copper		Nickel	
<1500	<u>mg/l</u>	3500	<u>mg/l</u>	0	<u>mg/l</u>	0.043	<u>mg/l</u>	0	<u>mg/l</u>

SECTION 4: Physical and Chemical Data

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. CES Evaluation

SECTION 7: Incompatibilities

Please list ALL Incompatibilities (if any):
None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Waste Recycle Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?
If 'Yes', complete this section.

☒ YES ☐ NO

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☒ Rinse/wash waters from petroleum sources

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CES ENVIROMENTAL

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P.007

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☒ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: _____

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: _____

Approval Number: _____

☒ Approved☐ Rejected

Total P.007

EPAHO109000786



4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Dana Carter
CC: Matt Bowman, Prabhaker, Clint Hopkins, Sam Brown

Date: 6/15/09

From: Miles Root

Lab Memo: 09-116

Subject: **TT Barge Evaluation 0609-19**

A sample of waste water from TT Barge, mile 83, has been evaluated for processing at CES. This sample is evaluation 0609-19 and represents a one-time acquisition of approximately 5,000 gallons of waste water. This water is produced from the cleaning of barges. Overall, this material looks acceptable for processing at CES and is recommended for acquisition.

This sample is murky in appearance with an odor of a cleaning solution which is not objectionable. It has a pH of 11. There are no oils and only a trace of solids. The water treats easily and forms a nice floc which readily separates out. The treated water retains a slightly murky appearance.

The treated water has no phenols, a TOC of 3404 ppm and acceptable metals. We will have no issues treating this water and it is recommended for acquisition and treatment at CES. The table below summarizes the analytical testing.

TT Barge	
Evaluation 0609-19	
pH	11
Phenols, ppm	0
TOC, mg/L	3404
Solids, vol%	trace
Odor	Acceptable
Oil, vol%	0
Treatability	OK
Metals, ppm	
Ni	0.000
Zn	0.000
Cu	0.043
Cd	0.001
Cr	0.159

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CES ENVIROMENTAL

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P.002



4804 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

June 16, 2009

T.T. Barge Mile 183
Attn: Chuck Metzler
7324 Highway 36
Donaldsonville, LA 70346

RE: Transportation and disposal pricing for non hazardous Class 1 Wastewater

Dear Mr. Metzler,

CES Environmental Services, Inc. appreciates the opportunity to present to you our proposal for the transportation and disposal of Non hazardous class 1 wastewater from your operations. Please find below our proposed scope of service and associated pricing for your consideration.

Scope of Service

- CES will provide a driver and vacuum trailer to pump out the wastewater.
- The water will be brought to CES under profile, treated, and discharged to the City of Houston WWTP under permit.
- CES will provide all proper shipping documents.

Estimated Costs

- | | |
|---|----------------|
| ▪ Transportation Services: | \$ 985.00/load |
| ▪ Disposal of Class 1 Non hazardous Wastewater: | \$ 0.10/gallon |

Conditions/Assumptions:

1. A sample will be required and a profile must be approved prior to scheduling any disposal. Profile must be given at least 72 hours for approval.
 2. The disposal rate is valid up to 5,000 TOC. Any additional TOC will be charged at \$0.03/gal/5,000 TOC greater than 5,000 TOC.
 3. The disposal rate is valid for up to 2% solids. Any additional solids will be charged at \$0.01/gal/1% greater than 2% solids.
 4. Cancellations must be given 24 hours in advance. If 24 hours notice is not given, a fee will be charged.
 5. Transportation rate includes one hour free loading and unloading. Any additional loading time will be charged at \$70.00/hour.
-

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CES ENVIROMENTAL

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4804 Griggs Road
Houston, TX 77021
Tel. (713) 678-1480
Fax. (713) 678-1676

6. Transportation rate does not include any applicable fuel surcharges as per the U.S. Department of Energy National Diesel Average. Fuel surcharges are evaluated on a monthly basis. The current rate for June 2009 is 9.5%
7. Energy surcharge will be charged according to the national average utility pricing index on all disposal services. At the time of this quote, the energy surcharge is 0.0%. Rate is subject to change on a monthly basis.
8. A 1% Compliance surcharge will be charged in order to stay compliant with federal and state government requirements. This surcharge is applied against the entire invoice (including other surcharges and direct fees).

Thank you again for the opportunity and your interest in CES Environmental Services, Inc. If you have any questions or need additional assistance, feel free to contact me at (713) 748-9804.

Sincerely,
Dana R. Carter
Account Manager

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8-4-09
LAD
T-35



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/19/2009

Dear Control Room

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3387

Expiration Date 6/19/2011

Generator: Noltex

Address: 12220 Strang Road (Attn: Randy Boeding)
La Porte, TX 77571

Waste Information

Name of Waste: Used oil - refrigerant

TCEQ Waste Code #: REC

Container Type:

Detailed Description of Process Generating Waste:

Used oil from manufacturing operations

Color: Dark brown to black **Odor:** Hydrocarbon

pH: 6.0-9.0<100

Physical State:

Incompatibilities: Strong oxidizing agents

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



18/mm Recycle Houston

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD0008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30918	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
--	---

SECTION 1: Generator Information

Company: Noltex L.L.C.
 Address: 12220 Strang Road
 City: La Porte State: TX Zip: 77571
 Contact: L. Kristine Aparicio Title: ELIS&S - Manager
 Phone Number: 281.842.5065 Fax Number: 281.842.5097
 24/hr Phone Number: 281.842.5035
 US EPA ID No: TXR000011106
 State ID No: _____ SIC Code: 2821, 2869

SECTION 2: Billing Information - ☒ Same as Above

Company: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Contact: _____ Title: _____
 Phone Number: _____ Fax Number: _____

SECTION 3: General Description of the WasteName of Waste: Used Oil - refrigerant

Detailed Description of Process Generating Waste: _____

Used Oil from manufacturing operations

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: dark brown to blackOdor: hydrocarbonSpecific Gravity (water=1): 0.8-0.9Density: 6.7-7.5 lbs/galDoes this material contain any total phenolic compounds? ☐ Yes ☒ NoDoes this material contain any para substituted phenolic compounds? ☐ Yes ☒ NoIs the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following.

2817	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phaseContainer Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)Frequency: ☐ Weekly ☐ Monthly ☒ Yearly ☐ One-TimeQuantity: 50

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package

Material sampled on 04/23/2009 and analyzed on 4/21/2009.

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

strong oxidizing agents

SECTION 8: Generator's Knowledge DocumentationLaboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCIP Metals: See attached analytical report

TCIP Volatiles: See attached analytical report

TCIP Semi-Volatiles: See attached analytical report

Reactivity: See attached analytical report

Corrosivity: See attached analytical report

Ignitability: See attached analytical report

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean up from non petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean out from organic, non petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
- Cadmium: 0.2 mg/l
Chromium: 8.9 mg/L
Copper: 4.9 mg/l
Nickel: 37.5 mg/L
- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory
- ☐ Metals Subcategory
 - ☒ Oils Subcategory
 - ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CFS will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:



Date:

06-18-09

Printed Name/Title:

KRISTINE APARICIO, MGR-EHS'S

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer:



Date:

6-19-09

☒ Approved☐ Rejected

Approval Number:

H04 3387



CES Environmental
Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$35/dmt trans + B.C.

2. Contamination Limit (maximum limit before surcharges apply):

Call Joy if ^{with} any questions

3. Surcharge Pricing:

4. Special Testing Requirements:

Chlor-d-test on composite sample, Black oil Blendability
flush

5. Treatment and Handling Protocol:

Blend w/ Black oil

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

--

8. Management for Product Recovered/Recycled (if applicable)

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ANALYTICAL REPORT

Job Number: 600-9786-1

Job Description: Drums MO810194-003 & -009 4/23/09 TCLP

For:
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740
Attention: Ms. Joy Snodgrass

Neil A. Rodriguez

Approved for Release
Neil A. Rodriguez
Project Manager II
5/7/2009 1:16 PM

Neil A Rodriguez
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05/07/2009

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SAMPLE SUMMARY

Client: Noltex LLC

Job Number: 600-9786-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Client Matrix</u>	<u>Date/Time Sampled</u>	<u>Date/Time Received</u>
600-9786-1	Drum# M0810194-009	Waste	04/23/2009 0830	04/23/2009 1119
600-9786-2	Drum# M0810194-003	Waste	04/23/2009 0850	04/23/2009 1119

Ms. Joy Snodgrass
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740

Job Number: 600-9786 1

Client Sample ID: Drum# M0810194-009
Lab Sample ID: 600-9786-1

Date Sampled: 04/23/2009 0830
Date Received: 04/23/2009 1119
Client Matrix: Waste

Analyte	Result/Qualifier		Unit	MDL	RI	Dilution
Method: TCLP-8260B			Date Analyzed:		04/27/2009	2121
Prep Method: 5030B			Date Prepared:		04/27/2009	2121
Benzene	22	U	ug/L	22	100	20
Carbon tetrachloride	22	U	ug/L	22	100	20
Chlorobenzene	18	U	ug/L	18	100	20
Chloroform	18	U	ug/L	18	100	20
1,2-Dichloroethane	22	U	ug/L	22	100	20
1,1-Dichloroethene	23	U	ug/L	23	100	20
2-Butanone (MEK)	32	U	ug/L	32	200	20
Tetrachloroethene	46	U	ug/L	46	100	20
Trichloroethene	26	U	ug/L	26	100	20
Vinyl chloride	32	U	ug/L	32	100	20
1,4-Dichlorobenzene	22	U	ug/L	22	100	20
Surrogate					Acceptance Limits	
4-Bromofluorobenzene	103		%		70 - 130	
Dibromofluoromethane	94		%		70 - 130	
Toluene-d8 (Surr)	109		%		70 - 130	
1,2-Dichloroethane-d4 (Surr)	85		%		70 - 130	
Method: TCLP-8270C			Date Analyzed:		04/28/2009	1946
Prep Method: 3510C			Date Prepared:		04/27/2009	1126
1,4-Dichlorobenzene	1.3	U	ug/L	1.3	10	1.0
2,4-Dinitrotoluene	0.95	U	ug/L	0.95	10	1.0
2,4,5-Trichlorophenol	1.3	U	ug/L	1.3	10	1.0
2,4,6-Trichlorophenol	0.92	U	ug/L	0.92	10	1.0
2-Methylphenol	1.0	U	ug/L	1.0	10	1.0
3 & 4 Methylphenol	12	J	ug/L	1.9	20	1.0
Hexachlorobenzene	0.90	U	ug/L	0.90	10	1.0
Hexachlorobutadiene	1.1	U	ug/L	1.1	10	1.0
Hexachloroethane	1.2	U	ug/L	1.2	10	1.0
Nitrobenzene	1.2	U	ug/L	1.2	10	1.0
Pentachlorophenol	0.89	U	ug/L	0.89	50	1.0
Pyridine	1.0	U	ug/L	1.0	10	1.0
Surrogate					Acceptance Limits	
Phenol d6	40		%		10 - 94	
Nitrobenzene d5	80		%		35 - 114	
2-Fluorophenol	59		%		21 - 100	
2-Fluorobiphenyl	94		%		43 - 116	
2,4,6-Tribromophenol	95		%		10 - 123	
Terphenyl-d14	94		%		33 - 141	

Ms. Joy Snodgrass
Nollex LLC
12220 Strang Road
La Porte, TX 77571-9740

Job Number: 600-9786-1

Client Sample ID: Drum# M0810194-009
Lab Sample ID: 600-9786-1

Date Sampled: 04/23/2009 0830
Date Received: 04/23/2009 1119
Client Matrix: Waste

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: TCLP-6010B			Date Analyzed:	04/28/2009 1100	
Prep Method: 3010A			Date Prepared:	04/27/2009 1610	
Silver	0.0012 U	mg/L	0.0012	0.010	1.0
Arsenic	0.013 B	mg/l	0.0033	0.010	1.0
Barium	0.068 B	mg/L	0.0016	0.020	1.0
Cadmium	0.00073 U	mg/L	0.00073	0.0050	1.0
Chromium	0.0016 U	mg/L	0.0016	0.010	1.0
Lead	0.0029 U	mg/l	0.0029	0.010	1.0
Selenium	0.012 J B	mg/l	0.0042	0.040	1.0
Method: TCLP-7470A			Date Analyzed:	04/27/2009 1709	
Prep Method: 7470A			Date Prepared:	04/27/2009 1015	
Mercury	0.11 J B	ug/l	0.021	0.20	1.0
Method: 9012			Date Analyzed:	05/07/2009 1416	
Prep Method: 7.3.3			Date Prepared:	05/06/2009 1300	
Reactive Cyanide	18 U	ug/Kg	18	250	1.0
Method: 9034			Date Analyzed:	05/07/2009 1409	
Prep Method: 7.3.4			Date Prepared:	05/06/2009 1300	
Reactive Sulfide	40 J	mg/Kg	14	50	1.0

Ms. Joy Snodgrass
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740

Job Number 600-9786-1

Client Sample ID: Drum# M0810194-009
Lab Sample ID: 600-9786-1

Date Sampled: 04/23/2009 0830
Date Received: 04/23/2009 1119
Client Matrix: Waste

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 1010					
Flashpoint	>186	Degrees F	1.0	1.0	1.0
Method: D240-87					
BTU	19000	BTU/lb	500	500	1.0

Ms. Joy Snodgrass
Noltox LLC
12220 Strang Road
La Porte, TX 77571-9740

Job Number: 600-9786-1

Client Sample ID: Drum# M0810194-003
Lab Sample ID: 600-9786-2

Date Sampled: 04/23/2009 0850
Date Received: 04/23/2009 1119
Client Matrix: Waste

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: TCLP-8260B			Date Analyzed:	04/27/2009 2145		
Prep Method: 5030B			Date Prepared:	04/27/2009 2145		
Benzene	22	U	ug/l	22	100	20
Carbon tetrachloride	22	U	ug/l	22	100	20
Chlorobenzene	18	U	ug/L	18	100	20
Chloroform	18	U	ug/L	18	100	20
1,2-Dichloromethane	22	U	ug/l	22	100	20
1,1-Dichloroethene	23	U	ug/L	23	100	20
2-Butanone (MEK)	32	U	ug/L	32	200	20
Tetrachloroethene	46	U	ug/L	46	100	20
Trichloroethene	26	U	ug/L	26	100	20
Vinyl chloride	32	U	ug/l	32	100	20
1,4-Dichlorobenzene	22	U	ug/L	22	100	20
Surrogate	Acceptance Limits					
4-Bromofluorobenzene	103		%		70 - 130	
Dibromofluoromethane	92		%		70 - 130	
Toluene-d8 (Sur)	109		%		70 - 130	
1,2-Dichloroethane-d4 (Sur)	84		%		70 - 130	
Method: TCLP-8270C			Date Analyzed:	04/28/2009 2017		
Prep Method: 3510C			Date Prepared:	04/27/2009 1126		
1,4-Dichlorobenzene	1.3	U	ug/L	1.3	10	1.0
2,4-Dinitrotoluene	0.95	U	ug/l	0.95	10	1.0
2,4,5-Trichlorophenol	1.3	U	ug/l	1.3	10	1.0
2,4,6-Trichlorophenol	0.92	U	ug/L	0.92	10	1.0
2-Methylphenol	1.0	U	ug/L	1.0	10	1.0
3 & 4 Methylphenol	1.9	U	ug/L	1.9	20	1.0
Hexachlorobenzene	0.90	U	ug/L	0.90	10	1.0
Hexachlorobutadiene	1.1	U	ug/L	1.1	10	1.0
Hexachloroethane	1.2	U	ug/L	1.2	10	1.0
Nitrobenzene	1.2	U	ug/L	1.2	10	1.0
Pentachlorophenol	0.89	U	ug/L	0.89	50	1.0
Pyridine	1.0	U	ug/l	1.0	10	1.0
Surrogate	Acceptance Limits					
Phenol-d6	39		%		10 - 94	
Nitrobenzene-d5	82		%		35 - 114	
2-Fluorophenol	58		%		21 - 100	
2-Fluorobiphenyl	69		%		43 - 116	
2,4,6-Tribromophenol	100		%		10 - 123	
Terphenyl-d14	86		%		33 - 141	

Ms. Joy Snodgrass
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740

Job Number 600-9786-1

Client Sample ID: Drum# M0810194-003
Lab Sample ID: 600-9786-2

Date Sampled: 04/23/2009 0850
Date Received: 04/23/2009 1119
Client Matrix: Waste

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: TCLP-6010B				Date Analyzed:	04/28/2009 1103	
Prep Method: 3010A				Date Prepared:	04/27/2009 1610	
Silver	0.0012	U	mg/L	0.0012	0.010	1.0
Arsenic	0.0094	JB	mg/L	0.0033	0.010	1.0
Barium	0.077	B	mg/l	0.0016	0.020	1.0
Cadmium	0.00073	U	mg/l	0.00073	0.0050	1.0
Chromium	0.0016	U	mg/l	0.0016	0.010	1.0
Lead	0.0029	U	mg/L	0.0029	0.010	1.0
Selenium	0.013	JB	mg/L	0.0042	0.010	1.0
Method: TCLP-7470A				Date Analyzed:	04/27/2009 1711	
Prep Method: 7470A				Date Prepared:	04/27/2009 1015	
Mercury	0.14	JB	ug/L	0.021	0.20	1.0
Method: 9012				Date Analyzed:	05/07/2009 1410	
Prep Method: 7.3.3				Date Prepared:	05/06/2009 1300	
Reactive Cyanide	18	U	ug/Kg	18	250	1.0
Method: 9034				Date Analyzed:	05/07/2009 1509	
Prep Method: 7.3.4				Date Prepared:	05/06/2009 1300	
Reactive Sulfide	30	J	mg/Kg	14	50	1.0

Ms. Joy Snodgrass
Noltex LLC
12220 Strang Road
La Porte, TX 77571-9740

Job Number: 600 9786 1

Client Sample ID: Drum# M0810194-003
Lab Sample ID: 600-9786-2

Date Sampled 04/23/2009 0050
Date Received 04/23/2009 1119
Client Matrix Waste

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 1010					
Flashpoint	>186	Degrees F	1.0	1.0	1.0
Method: D240-B7					
RTU	21000	BTU/lb	500	500	1.0

METHOD SUMMARY

Client: Noltex LLC

Job Number: 600-9/86-1

Description	Lab Location	Method	Preparation Method
Matrix: Waste			
Volatile Organic Compounds (GC/MS)	TAL HOU	SW846 8260B	
TCLP Extraction	TAL HOU		SW846 1311
Purge and Trap	TAL HOU		SW846 5030D
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL HOU	SW846 8270C	
TCLP Extraction	TAL HOU		SW846 1311
Liquid-Liquid Extraction (Separatory Funnel)	TAL HOU		SW846 3510C
Metals (ICP)	TAL HOU	SW846 6010B	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Total Metals	TAL HOU		SW846 3010A
Mercury (CVM)	TAL HOU	SW846 7470A	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Mercury	TAL HOU		SW846 7470A
Ignitability, Pensky Martens Closed Cup Method	TAL HOU	SW846 1010	
Cyanide, Reactive	TAL HOU	SW846 9012	
Cyanide, Reactive	TAL HOU		SW846 733
Sulfide, Acid Soluble and Insoluble (Titrimetric)	TAL HOU	SW846 9034	
Sulfide, Reactive	TAL HOU		SW846 734
Heat of Combustion	TAL HOU	ASTM D3240-87	

Lab References:

TAL HOU TestAmerica Houston

Method References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates

METHOD / ANALYST SUMMARY

Client: Noltex LLC

Job Number: 600-9786-1

Method	Analyst	Analyst ID
SW846 8260B	Liu, Zailang	ZFL
SW846 8270C	Sundquist, Trevor W	TWS
SW846 0010B	Patel, Silan R	SRP
SW846 7470A	Lige, Derrick C	DCL
SW846 1010	Puranik, Surendra U	SUP
SW846 9012	Walker, Gerald (Gerry) C	GCW
SW846 9034	Walker, Gerald (Gerry) C	GCW
ASTM D240-87	Puranik, Surendra U	SUP

QUALITY CONTROL RESULTS

Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

TCLP SPLPE Leachate Blank - Batch: 600-14163

Method: 8260B

Preparation: 5030B

TCLP

Lab Sample ID: LB 600-13999/1 A
 Client Matrix: Waste
 Dilution: 1.0
 Date Analyzed: 04/27/2009 1628
 Date Prepared: 04/27/2009 1628
 Date Leached: 04/24/2009 1500

Analysis Batch: 600-14163
 Prep Batch: N/A
 Units: ug/L
 Leachate Batch: 600-13999

Instrument ID: VOA-V
 Lab File ID: 111706.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.1	U	1.1	5.0
Carbon tetrachloride	1.1	U	1.1	5.0
Chlorobenzene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	U	1.2	5.0
2-Butanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Vinyl chloride	1.6	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0
Surrogate	% Rec	Acceptance Limits		
4-Bromofluorobenzene	99	70 - 130		
Dibromofluoromethane	93	70 - 130		
Toluene d8 (Surr)	109	70 - 130		
1,2-Dichloroethane-d4 (Surr)	84	70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

Method Blank - Batch: 600-14163

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 600-14163/3
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 04/27/2009 1717
 Date Prepared: 04/27/2009 1717

Analysis Batch: 600-14163
 Prep Batch: N/A
 Units: ug/L

Instrument ID: VOA-V
 Lab File ID: 111708.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.1	U	1.1	5.0
Carbon tetrachloride	1.1	U	1.1	5.0
Chlorobenzene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	U	1.2	5.0
2-Butanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Vinyl chloride	1.6	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	102	70 - 130
Dibromofluoromethane	93	70 - 130
Toluene-d8 (Surr)	113	70 - 130
1,2-Dichloroethane-d4 (Surr)	83	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results

Quality Control Results

Client: Noltex LLC

Job Number: 600 9786 1

Lab Control Sample - Batch: 600-14163

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 600-14163/1
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 04/27/2009 1450
 Date Prepared: 04/27/2009 1450

Analysis Batch: 600 14163
 Prep Batch: N/A
 Units: ug/L

Instrument ID: VOA-V
 Lab File ID: H11703.D
 Initial Weight/Volume: 5 ml
 Final Weight/Volume: 5 ml

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	46.0	92	69 - 124	
Carbon tetrachloride	50.0	43.0	86	57 - 134	
Chlorobenzene	50.0	49.0	98	70 - 129	
Chloroform	50.0	48.2	96	69 - 128	
1,2-Dichloroethane	50.0	44.5	89	65 - 134	
1,1-Dichloroethene	50.0	45.1	90	45 - 136	
2-Butanone (MEK)	100	111	111	53 - 140	
Tetrachloroethene	50.0	52.0	106	59 - 134	
Trichloroethene	50.0	45.3	91	68 - 130	
Vinyl chloride	50.0	46.4	93	38 - 153	
1,4-Dichlorobenzene	50.0	45.1	90	72 - 131	
Surrogate		% Rec.		Acceptance Limits	
4-Bromofluorobenzene		91		70 - 130	
Dibromofluoromethane		96		70 - 130	
Toluene-d8 (Surr)		98		70 - 130	
1,2-Dichloroethane d4 (Surr)		87		70 - 130	

Calculations are performed before rounding to avoid round off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

Method Blank - Batch: 600-14019

Method: 8270C

Preparation: 3510C

Lab Sample ID: MB 600-14019/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 04/20/2009 11:42
 Date Prepared: 04/27/2009 11:28

Analysis Batch: 600-14145
 Prep Batch: 600-14019
 Units: ug/L

Instrument ID: MSD2348
 Lab File ID: Z0428904.D
 Initial Weight/Volume: 1000 mL
 Final Weight/Volume: 1.00 mL
 Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
1,4-Dichlorobenzene	1.3	U	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,5-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2-Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachlorocyclopentadiene	1.2	U	1.2	10
Nitrobenzene	1.2	U	1.2	10
Pentachlorophenol	0.89	U	0.89	50
Pyridine	1.0	U	1.0	10
Surrogate	% Rec		Acceptance Limits	
Phenol-d6	41		10 - 94	
Nitrobenzene-d5	78		35 - 114	
2-Fluorophenol	60		21 - 100	
2-Fluorobiphenyl	89		43 - 116	
2,4,6-Tribromophenol	91		10 - 123	
Terphenyl-d14	90		33 - 141	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

TCLP SPLPE Leachate Blank - Batch: 600-14019

Method: 8270C

Preparation: 3510C

TCLP

Lab Sample ID: 1 B 600 13990/1 C
 Client Matrix: Waste
 Dilution: 10
 Date Analyzed: 04/20/2009 1915
 Date Prepared: 04/27/2009 1126
 Date Leached: 04/24/2009 1430

Analysis Batch: 600 14145
 Prep Batch: 600-14019
 Units: ug/L
 Leachate Batch: 600-13990

Instrument ID: MSD2348
 Lab File ID: Z0428907.D
 Initial Weight/Volume: 1005 mL
 Final Weight/Volume: 1.00 mL
 Injection Volume: 10 ul

Analyte	Result	Qual	MDI	RI
1,4-Dichlorobenzene	1.3	U	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,6-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2 Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachlorocyclohexane	1.2	U	1.2	10
Nitrobenzene	1.2	U	1.2	10
Pentachlorophenol	0.89	U	0.89	50
Pyridine	1.0	U	1.0	10

Surrogate	% Rec	Acceptance Limits
Phenol-d6	35	10 - 94
Nitrobenzene-d5	86	35 - 114
2-Fluorophenol	56	21 - 100
2-Fluorobiphenyl	92	43 - 110
2,4,6-Tribromophenol	92	10 - 123
Terphenyl-d14	93	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 600-14019

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 600-14019/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/28/2009 1813
Date Prepared: 04/27/2009 1126

Analysis Batch: 600-14145
Prep Batch: 600-14019
Units: ug/L

Instrument ID: MSD2348
Lab File ID: Z0428905.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.00 mL
Injection Volume: 1.0 uL

LCSD Lab Sample ID: LCSD 600-14019/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/28/2009 1844
Date Prepared: 04/27/2009 1126

Analysis Batch: 600-14145
Prep Batch: 600-14019
Units: ug/L

Instrument ID: MSD2348
Lab File ID: Z0428905.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.00 mL
Injection Volume: 1.0 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
2,4,5-Trichlorophenol	90	91	59 - 123	2	20		
2,4,6-Trichlorophenol	90	94	30 - 143	5	20		
2-Methylphenol	73	76	34 - 109	5	20		
3 & 4 Methylphenol	74	78	27 - 113	5	20		
Hexachlorobenzene	95	101	62 - 121	5	20		
Hexachlorobutadiene	92	90	32 - 143	2	20		
Hexachloroethane	86	87	42 - 110	2	20		
Nitrobenzene	82	81	55 - 115	0	20		
Pentachlorophenol	93	101	44 - 142	9	20	.1	
Pyridine	51	42	10 - 109	19	40		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Phenol d6	30		43		10 - 94		
Nitrobenzene-d5	83		81		35 - 114		
2-Fluorophenol	59		61		21 - 100		
2-Fluorobiphenyl	91		87		43 - 116		
2,4,6-Tribromophenol	96		97		10 - 123		
Terphenyl-d14	88		89		33 - 141		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

Method Blank - Batch: 600-14047

Method: 6010B

Preparation: 3010A

Lab Sample ID: MB 600-14047/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 04/28/2009 1008
 Date Prepared: 04/27/2009 1610

Analysis Batch: 600-14070
 Prep Batch: 600-14047
 Units: mg/L

Instrument ID: TJA ICP 61E
 Lab File ID: T042809
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Silver	0.0012	U	0.0012	0.010
Arsenic	0.0033	U	0.0033	0.010
Barium	0.0016	U	0.0016	0.020
Cadmium	0.00073	U	0.00073	0.0050
Chromium	0.0016	U	0.0016	0.010
Lead	0.0029	U	0.0029	0.010
Selenium	0.0042	U	0.0042	0.040

TCLP SPLPE Leachate Blank - Batch: 600-14047

Method: 6010B

Preparation: 3010A

TCLP

Lab Sample ID: LB 600-13990/1-D
 Client Matrix: Waste
 Dilution: 1.0
 Date Analyzed: 04/28/2009 1030
 Date Prepared: 04/27/2009 1610
 Date Leached: 04/24/2009 1430

Analysis Batch: 600-14070
 Prep Batch: 600-14047
 Units: mg/L

Instrument ID: TJA ICP 61E
 Lab File ID: T042809
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Leachate Batch: 600-13990

Analyte	Result	Qual	MDL	RL
Silver	0.0012	U	0.0012	0.010
Arsenic	0.013		0.0033	0.010
Barium	0.059		0.0016	0.020
Cadmium	0.00073	U	0.00073	0.0050
Chromium	0.0016	U	0.0016	0.010
Lead	0.0029	U	0.0029	0.010
Selenium	0.014	J	0.0042	0.040

Calculations are performed before rounding to avoid round off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

Lab Control Sample - Batch: 600-14047**Method: 6010B****Preparation: 3010A**

Lab Sample ID: LCS 600-14047/2 A
Client Matrix: Water
Dilution: 10
Date Analyzed: 04/28/2009 1012
Date Prepared: 04/27/2009 1010

Analysis Batch: 600-14070
Prep Batch: 600-14047
Units: mg/L

Instrument ID: LJA ICP 61F
Lab File ID: T042809
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	0.500	0.507	101	80 - 120	
Arsenic	1.00	1.03	103	80 - 120	
Barium	1.00	1.04	104	80 - 120	
Cadmium	0.500	0.516	103	80 - 120	
Chromium	1.00	1.02	102	80 - 120	
Lead	1.00	1.05	105	80 - 120	
Selenium	1.00	1.02	102	80 - 120	

Calculations are performed before rounding to avoid round off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

Method Blank - Batch: 600-14003

Method: 7470A
Preparation: 7470ALab Sample ID: MB 600-14003/7-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/27/2009 1632
Date Prepared: 04/27/2009 1015Analysis Batch: 600-14051
Prep Batch: 600-14003
Units: ug/LInstrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDI	RL
Mercury	0.10	J	0.021	0.20

TCLP SPLPE Leachate Blank - Batch: 600-14003

Method: 7470A
Preparation: 7470A
TCLPLab Sample ID: LB 600-13990/1-B
Client Matrix: Waste
Dilution: 1.0
Date Analyzed: 04/27/2009 1655
Date Prepared: 04/27/2009 1015
Date Leached: 04/24/2009 1430Analysis Batch: 600-14051
Prep Batch: 600-14003
Units: ug/L

Leachate Batch: 600-13990Instrument ID: Perkin Elmer FIMS 100
Lab File ID: N/A
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDI	RL
Mercury	0.094	J	0.021	0.20

Lab Control Sample - Batch: 600-14003

Method: 7470A
Preparation: 7470ALab Sample ID: LCS 600-14003/8-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/27/2009 1634
Date Prepared: 04/27/2009 1015Analysis Batch: 600-14051
Prep Batch: 600-14003
Units: ug/LInstrument ID: Perkin Elmer FIMS-100
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec	Limit	Qual
Mercury	3.00	2.78	93	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results

Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

Method Blank - Batch: 600-14055

Method: 1010

Preparation: N/A

Lab Sample ID: MB 600-14055/1
Client Matrix: Waste
Dilution: 1.0
Date Analyzed: 04/27/2009 1810
Date Prepared: N/A

Analysis Batch: 600-14055
Prep Batch: N/A
Units: Degrees F

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Flashpoint	>186		1.0	1.0

Lab Control Sample - Batch: 600-14055

Method: 1010

Preparation: N/A

Lab Sample ID: LCS 600-14055/2
Client Matrix: Waste
Dilution: 1.0
Date Analyzed: 04/27/2009 1810
Date Prepared: N/A

Analysis Batch: 600-14055
Prep Batch: N/A
Units: Degrees F

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 60 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Flashpoint	81.0	82.0	101	96.91 - 103.09	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

Matrix Spike - Batch: 600-14529

Method: 9012

Preparation: 7.3.3

Lab Sample ID: 600-9786-1
Client Matrix: Waste
Dilution: 20
Date Analyzed: 05/07/2009 1416
Date Prepared: 05/06/2009 1300

Analysis Batch: 600-14640
Prep Batch: 600-14529
Units: ug/Kg

Instrument ID: WC05 Lachat 1
Lab File ID: N/A
Initial Weight/Volume: 10 g
Final Weight/Volume: 250 ml

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Reactive Cyanide	18 U	1000000	41800	4	0 - 100	

Duplicate - Batch: 600-14529

Method: 9012

Preparation: 7.3.3

Lab Sample ID: 600-9786-1
Client Matrix: Waste
Dilution: 1.0
Date Analyzed: 05/07/2009 1416
Date Prepared: 05/06/2009 1300

Analysis Batch: 600-14640
Prep Batch: 600-14529
Units: ug/Kg

Instrument ID: WC05 Lachat-1
Lab File ID: N/A
Initial Weight/Volume: 10 g
Final Weight/Volume: 250 ml

Analyte	Sample Result/Qual	Result	RPI	Limit	Qual
Reactive Cyanide	18 U	18	NC	20	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600 9786-1

Method Blank - Batch: 600-14529

Method: 9034

Preparation: 7.3.4

Lab Sample ID: MB 600-14529/1-A
 Client Matrix: Waste
 Dilution: 1.0
 Date Analyzed: 05/07/2009 1409
 Date Prepared: 05/06/2009 1300

Analysis Batch: 600-14638
 Prep Batch: 600-14529
 Units: mg/Kg

Instrument ID: No Equipment Assigned
 Lab File ID: N/A
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Reactive Sulfide	14	U	14	50

Lab Control Sample - Batch: 600-14529

Method: 9034

Preparation: 7.3.4

Lab Sample ID: LCS 600 14529/2 A
 Client Matrix: Waste
 Dilution: 1.0
 Date Analyzed: 05/07/2009 1409
 Date Prepared: 05/06/2009 1300

Analysis Batch: 600-14638
 Prep Batch: 600 14529
 Units: mg/Kg

Instrument ID: No Equipment Assigned
 Lab File ID: N/A
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec	Limit	Qual
Reactive Sulfide	1840	910	49	0 - 100	

Matrix Spike - Batch: 600-14529

Method: 9034

Preparation: 7.3.4

Lab Sample ID: 600-9786 1
 Client Matrix: Waste
 Dilution: 1.0
 Date Analyzed: 05/07/2009 1409
 Date Prepared: 05/06/2009 1300

Analysis Batch: 600-14638
 Prep Batch: 600 14529
 Units: mg/Kg

Instrument ID: No Equipment Assigned
 Lab File ID: N/A
 Initial Weight/Volume: 10 g
 Final Weight/Volume: 250 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Reactive Sulfide	40 U	1840	970	51	0 - 100	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

Duplicate - Batch: 600-14529**Method: 9034****Preparation: 7.3.4**

Lab Sample ID: 600-9786-1
Client Matrix: Waste
Dilution: 10
Date Analyzed: 05/07/2009 1409
Date Prepared: 05/06/2009 1300

Analysis Batch: 600-14529
Prep Batch: 600-14529
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 g
Final Weight/Volume: 250 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Reactive Sulfide	40 J	30.0	29	20	J

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client Noltex LLC

Job Number 600-9786-1

Lab Control Sample - Batch: 600-14223

Method: D240-87

Preparation: N/A

Lab Sample ID: LCS 600-14223/1

Analysis Batch: 600-14223

Instrument ID: No Equipment Assigned

Client Matrix: Waste

Prep Batch: N/A

Lab File ID: N/A

Dilution: 1.0

Units: BTU/lb

Initial Weight/Volume: 0.0050 g

Date Analyzed: 04/29/2009 1645

Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
BTU	11400	11100	98	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results

DATA REPORTING QUALIFIERS

Client: Nolltex LLC

Job Number: 600-9786 1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	H	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

Loc: 500

9786

#2

Page: 1 of 1

TestAmerica Laboratories, Inc.

Customer Information		Project Information		Analysis/Methods	
PO:		Project Name:	Waste Disposal	A	TCLP-Volatiles (8260) [K]
WC:		TAL Project No:	60C00463	B	TCLP-Semivolatiles (8270) [L]
Company:	Noltex, LLC	Bill To:	Noltex, LLC	C	TCLP-Metals (6310/7470) [M]
Report to:	Joy Snodgrass	Invoice ATTN:	Joy Snodgrass	D	RC [N]
Address:	12220 Strang Road La Porte, TX 77571-9740	Address:	12220 Strang Road La Porte, TX 77571-9740	E	BTUs [P]
E-mail:	Joy_Snodgrass@noltex.com		Joy_Snodgrass@noltex.com	F	[Q]
Phone:	281-842-5039	Phone:	281-842-5039	G	[R]
Fax:	281-842-5097	Fax:	281-842-5097	H	Other
				I	
				J	

No.	Sample Description	Preservation	Date	Time	Matrix	# Cont.	Comments	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1		NONE			Waste	2		X	X	X	X	X													
2	Drum # NA21094-009	NONE	4/23/09	8:30	Waste	1		X	X	X	X	X													
3	Drum # NA21094-003	NONE	4/23/09	8:50	Waste	1		X	X	X	X	X													
4																									
5																									
6																									
7																									
8																									

Sampler:		Shipment Method: TAL Pickup		Required TAT: 24-h 48-h 72-h 5 Days 10 Days Other:	
1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:
Joy Snodgrass	4/23/09	Juanito Ruiz	4-23-09	Juanito Ruiz	4-23-09
Company:	Time:	Company:	Time:	Company:	Time:
Noltex	10:25am	TA	10:25	TA	11:19
5. Relinquished by:	Date:	6. Received by:	Date:	7. Relinquished by:	Date:
Company:	Time:	Company:	Time:	Company:	Time:

Comments/Notes:	
05/09	

TestAmerica Laboratories 6310 Rothway Drive, Suite 130 Houston, TX 77040 Phone: 713.590.4444 Fax: 713.590.5646
 TAL Project Manager: Neil Rodriguez 713-358-2006

JUN-18-2009 12:44 From: NOLTEX

2818425097

To: 7137488664

P. 32/36

EPAHQ109000825

Login Sample Receipt Check List

Client: Noltex LLC

Job Number: 600-9786-1

Login Number: 9786

List Source: TestAmerica Houston

Creator: Clarke, Michael (Mike) C

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
There are no discrepancies between the sample IDs on the containers and the COC	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used	True	
Sample bottles are completely filled	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubbles <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphase samples are not present	True	
Samples do not require splitting or compositing.	True	



ANALYTICAL REPORT

Job Number: 600-9786-2

SDG Number:

Job Description: Supplemental Report MO810194-003 & -009

For:

Noltex LLC

12220 Strang Road

La Porte, TX 77571-9740

Attention: Ms. Joy Snodgrass

Neil A. Rodriguez

Approved for release
Neil A. Rodriguez
Project Manager II
5/29/2009 2:53 PM

Neil A Rodriguez
Project Manager II
neil.rodrique@testamericainc.com
05/29/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager

TestAmerica Houston Certifications and Approvals: TX NELAP T104/04223-06-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

TestAmerica Laboratories, Inc.

TestAmerica Houston 6310 Rothway Street, Houston, TX 77040

Tel (713) 690-4444 Fax (713) 690-5646 www.testamericainc.com



Job Narrative
G00-J9786-2

Comments

Supplemental report, subcontracted corrosivity analysis report is attached.

Certificate of Analysis



SINCE 1985

Quality Controlled Through Analysis

10830 FALLENSTONE RD. • FARMERS BRANCH, TEXAS 75440
P.O. BOX 741900 • DALLAS, TEXAS 75274

TEL: (281) 495-2400

FAX: (281) 495-2410

CLIENT: Test America
 SAMPLE: Multiple Samples
 LABORATORY NO: 55013 R

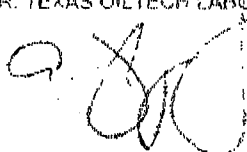
REQUESTED BY: Mr. Neil Rodriquez
 REPORT DATE: May 29, 2009
 PURCHASE ORDER NO: Pending

TEST

RESULT

Lab No.	Sample ID.	pH of Water Extractions of Halogenated Organic Solvents and Their Admixtures. ASTM D 2110
55013-01	9785-1 (Drum # M0810194-009)	6.78
55013-02	9786-2 (Drum # M0810194-003)	6.63

Respectfully submitted
 FOR: TEXAS OILTECH LABORATORIES, L.P.


 A. Phil Sorubakhsh
 Director of Laboratory Operations



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 whose exclusive and confidential use this report is made. Texas Oiltech Laboratories, Inc. and its employees
 assume no responsibility and make no warranty for proper operations of any petroleum, oil, gas or any
 other material in connection with which this report is used or relied on.



05/29/2009

3357

Cameron Compression



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/3/2009

Dear Lee Pinson

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3357

Expiration Date 6/3/2011

Generator: Cameron Compression Systems

Address: 600 South First Street
Ponca City, OK 74604

Waste Information

Name of Waste: Sodium hydroxide solution

TCEQ Waste Code #: Product

Container Type:

Detailed Description of Process Generating Waste:

used plating solution "this material is not a waste, it is product being used for what its intended purpose"

Color: varies

Odor: mild

pH: >14

Physical State:

Incompatibilities: strong acids

Safety Related Data/Special Handling:

standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.



Product

JB/MM

<input type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input checked="" type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
--	--

SECTION 1: Generator Information

Company: Cameron Compression Systems
Address: 600 South First Street
City: Ponca City State: OK Zip: 74604
Contact: J. Moman Title: Env. Mgr.
Phone Number: (580) 767-8101 Fax Number: (580) 761-0521
24/hr Phone Number: (580) 761-0699
US EPA ID No: _____
State ID No: DD0040 SIC Code: _____

SECTION 2: Billing Information - ☐ Same as Above

Company: Sierra Chemical Corp.
Address: 4524 Southlake Pkwy., Suite 34, PMB 101
City: Hoover State: AL Zip: 35244
Contact: M. Pinson Title: CFO
Phone Number: (205) 982-7799 Fax Number: (205) 982-0608

SECTION 3: General Description of the Waste

Name of Waste: Sodium hydroxide solution
Detailed Description of Process Generating Waste: _____

Used plating solution "This material is not a waste it is a product being used for its intend purpose"

Physical State: ☒ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: Varies Odor: Mild

Specific Gravity (water=1): >1.0 Density: <10 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☐ One-Time

Quantity: Quarterly

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009
☐ D010 ☐ D011

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

Recycle/Product

UN3263, Corrosive liquids, basic, inorganic, n.o.s., (sodium hydroxide)

UN3263, Co PG : II RQ:

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
none		>14		0 mg/l		0 mg/l		,1 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
0	mg/l	0	mg/l	0	mg/l	0	mg/l	0	mg/l

[illegible]

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste

approval package. none

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

Strong Acids

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED**

based upon the following generator knowledge:

TCLP Metals: none

TCLP Volatiles: none

TCLP Semi-Volatiles: none

Reactivity: none

Corrosivity: yes

Ignitability: none

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge?

☐ YES

☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☒ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☒ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: _____

5/31/09

Printed Name/Title: L. Pinson/President

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: _____

6-2-09

☒ Approved

☐ Rejected

Approval Number: _____

PA-3357



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$ 0.40/gal + trans

2. Contamination Limit (maximum limit before surcharges apply):

< 0.5% Solids, > 5% Caustic by titration

3. Surcharge Pricing:

4. Special Testing Requirements:

Caustic Analysis: pH, s.g., % NaOH by titration

5. Treatment and Handling Protocol:

Put into NaOH product tank

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

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8. Management for Product Recovered/Recycled (if applicable)

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4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

To: Joy Baker
Cc: Matt Bowman, Clint Hopkins, Prabhaker, Sam Brown

Date: 5/19/09

From: Miles Root

Lab Memo: 09-093

Subject: **Sierra Chemical Evaluations 0509-18 thru 21**

Four different samples of waste material from Sierra Chemical (Cameron Compression), have been evaluated for potential processing/use at CES/PACES. These four samples are evaluations 0509-18 thru 21. A summary of each sample follows.

Evaluation 0509-18 is a spent sulfuric acid. The potential volume is one load every two months. This sample has a density of 1.370. An addition of 50% NaOH to neutralize this acid shows it to be just under 50%. These two pieces of data indicate that this acid is around 47% wt% sulfuric acid.

It is clean looking material which springs out crude cresylic acid or liberates hydrogen sulfide from spent caustics. I treated this sample as water just to see how it would process. Of course it requires an excessive amount of caustic for it to be neutralized, but the water produced is good looking with low metals. Since it will add value to our business as an acid we should use it in that capacity. I recommend that we try this acid at PACES in either our cresylic acid or NaSH production process.

Evaluation 0509-19 is some type of spent caustic. The potential volume of this material is one load per quarter. This sample has a density of 1.147, which should equate to 15% caustic. A titration shows this caustic to be 8.8 wt% as NaOH, but it does contain a significant amount of sodium carbonate as well. Its high carbonate content is indicated by the excessive foaming noted during the titration with HCl. Sodium carbonate will not be a part of any reaction for strengthening our NaSH production, and will actually lower the sulfide component. Currently we get no compensation for the carbonates in our NaSH product.

The strength of usable caustic is too low for profitable use at PACES. Metals on the neat sample show very high zinc and chromium. If we can make some good money for taking this material then it needs to go to PACES. We can put it into the NaSH product tank to consume the small amount of hydrogen sulfide that it will do. It will not make us any money on the NaSH sales side so we need to cover our costs up front. I don't see a better option if we really want to take this material.

Evaluation 0509-20 is waste water. The potential volume is three loads per month. This water has a pH of 6 and contains orange/brown silt from its previous use. When treated, it produces an extremely high volume of solids which I estimate to be at least 75% when spun down. Metals and TOC are low, with no phenols. Odor is not an issue. We can treat this water at CES but need to price as though we are going to filter press this entire load, as that may happen.



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Evaluation 0509-21 is an unknown cleaning solution. It is called CL 2000 spent acid. The potential volume of this material is four totes per quarter. It has a pH of around 3 but does not act like it has much acid strength left in it. When reacted with sulfidic caustic its reaction causes only a trace quantity of hydrogen sulfide to be released. It also forms an emulsion looking product that will need to be disposed. Odor is not really an issue with this stream.

This material contains a soap or detergent as it foams when shaken, and the foam remains for quite some time afterwards. This material does not really treat. It forms a sludge when mixed with caustic and/or lime that never separates out into anything that can be processed. Metals on the neat sample are extremely high in zinc and chromium.

This is not an acid that will add value to CES or PACES, nor does it respond to waste water treatment. Since it is only four totes per quarter our only logical processing scheme is to bring it into CES and slowly process it over time into our tanks. The volume of sludge that is produced will evenly distribute itself out over thousands of gallons of water. These four totes will all end up in our filter cake box over time. If our pricing will be high enough to cover this considerable amount of extra handling that will be involved and we can make some good money, then this is an option we should seriously consider.

The table below summarizes the analytical data and recommendations on the above samples.

Sierra Chemicals				
Evaluations 0509-18 thru 21				
	0509-18	0509-19	0509-20	0509-21
H2SO4, wt%	47			
NaOH, wt%		8.8		
Specific Gravity	1.137	1.147		
CES Use	No	No	Yes	Yes
PACES Use	Yes	Yes	No	No
Odor Issues	None	None	None	None
Treatability	Use @ PACES	N/A	Difficult	Very Difficult
Phenols, ppm			0	0
Metals			Treated Sx	Untreated Sx
Ni			0.11	71
Zn			0.022	2.432
Cu			0.032	0.558
Cd			0.01	0.146
Cr			0	174
Recommended?	Yes	Yes	Yes	Yes

3358

Houston Marine



4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/3/2009

Dear Nelson Fetgatter

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3358

Expiration Date 6/3/2011

Generator: Houston Marine Services /TransMontinge

Address: 850 Independence Pkwy North
Baytown, TX 77520

Waste Information

Name of Waste: Oily Debris and absorbent

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

absorbents used in cleaning equipment around the yard

Color: dark

Odor: mild

pH: na

Physical State:

Incompatibilities: none known

Safety Related Data/Special Handling:

std PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

EPAHO109000841



**CES Environmental
Services, Inc.**

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

Recy

JB/mm

SECTION 1: Generator Information

Company: Houston Marine Services / TransMonting
Address: 850 Independence Parkway North
City, State, Zip: Baytown, Texas 77520
Contact: Mike Newton Title: Plant Manager
Phone No: 281-424-2525 Fax No: N/A
24/hr Phone: 281-424-2525
U.S. EPA I.D. No: TXR000024570
State I.D. N/A SIC Code: N/A

SECTION 2: Billing Information - ☐ Same as Above

Company: Phoenix Pollution Control & Environmental Services, Inc.
Address: 4808 Fairmont Parkway #274
City, State, Zip: Pasadena, Texas 77505
Contact: Connie Fetgatter Title: Accounting
Phone No: 281-838-3400 Fax No: 281-424-7748

SECTION 3: General Description of the Waste

Name of Waste: Oily Debris & Absorbent

Detailed Description of Process Generating Waste: Absorbent Used In Cleaning Equipment Around The Yard.

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: N/A

Odor: Mild

Specific Gravity (water=1): N/A

Density: N/A lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 Gal.

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly

Number of Units (containers): 1 Drums Other: _____

Texas State Waste Code No: N/A

Proper U.S. DOT Shipping Name:

Class: NA

UN/NA:

NA

PG: NA

RQ: NA

Non RCRA / No A DOT Regulated Material

Flash Point N/A	pH N/A	Reactive Sulfides N/Amg/l	Reactive Cyanides N/Amg/l	Solids 100%
Oil & Grease N/Amg/l	TOC N/Amg/l	Zinc N/Amg/l	Copper N/Amg/l	Nickel N/Amg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Absorbent & Debris	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
N/A

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
N/A

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ☒ X
TCLP Volatiles: ☒ X
TCLP Semi-Volatiles: ☒ X
Reactivity: ☒ X
Corrosivity: ☒ X
Ignitability: ☒ X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____

Date: 06-01-09

Printed Name/Title: _____

SEVE Sams / AUTH. BROKER

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: <u>[Signature]</u>	
Date: <u>6-2-09</u>	Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>
Approval Number: <u>3358</u>	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. Base Pricing (including freight):

\$65/drum + trans + fsc

2. Contamination Limits (maximum limit before surcharges apply):

No free liquid

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Oil Pad Recycling

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

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8. **Management for Product Recovered/Recycled (if applicable):**

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